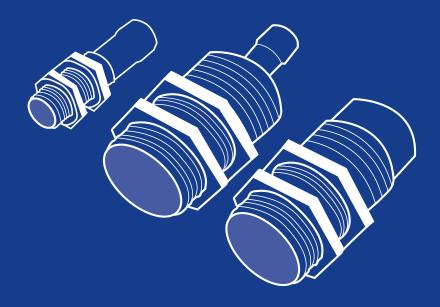
CATALOG

Inductive and Capacitive Sensors





INDUCTIVE SENSORS

Inductive proximity sensors generate a magnetic field from their detection faces. Whenever a detectable object moves into the sensor's field of detection, Eddy currents build up in the target and dampen the sensor's magnetic field. This effect triggers the sensor's output. Since a current in the target is needed for detection, inductive proximity sensors are uniquely suited for detection of all types of metals.

ADVANTAGES

- -Not affected by humidity and dust
- -No moving parts, no mechanical wear
- -Independent of the color of the object to detect
- -No dead zone

DISADVANTAGES

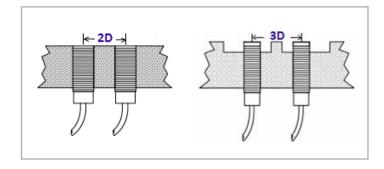
- -only detect metallic objects
- -low operating distance
- -sensitive to electromagnetic interference (such as electric welding, induction ovens)

SHIELDED MODELS - FLUSH MOUNTING

Shielded models can be installed with their sensing faces flush to the metal. The distance from opposing metal surfaces must be \geq 3sn and the distance between two proximity switches (side-byside) \geq 2D.

UNSHIELDED MODELS - NON-FLUSH MOUNTING

Unshielded models can be identified by their 'caps", since they have no metal housing surrounding the area of the sensing face. The sensing face must extend ≥ 2 sn from the metallic installation medium. The distance from opposing metal surfaces must be ≥ 3 sn and the distance between two adjacent proximity switches ≥ 3 D. The metal body leaves uncovered part of the sensing area resulting in an increased sensing distance.



Main tubular models are available in both nickel plated brass and stainless steel housing, with the active sensing face in LCP plastic.

METAL FACE VERSION:

Are available stainless steel versions (M12.M18).

Are used in especially harsh environments and applications which are too extreme for standard sensors. They resist to abrasive media, aggressive cleaners and solvents with their rugged sensing face. IP67 protection.

WELD FIELD IMMUNE VERSION:

These special field immune models are ideal for welding environments and other applications where large magnetic fields are present. They are rated for reliable operation near the current line carrying 20,000 amps.

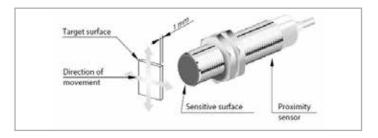
NAMUR VERSION:

Are available 2 wires versions (M5, M6,5, M8, M12, M18, M30). They can be used in conjunction with suitable switching amplifiers.

The switch amplifier must be installed outside the explosive area. Almost all versions have IP67 mechanical protection.

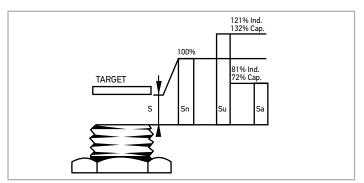
NOMINAL SWITCHING DISTANCE (SN) ACCORDING TO EN 60947-5-2

When an inductive proximity sensor is rated for sensing distance, it refers to the sensor's ability to detect the "standard detectable object" at its specified sensing distance. The "standard detectable object" is a 1mm thick square piece of ferrous iron that is in height and width the size of the proximity sensor's detection face's diameter.



When the object to be detected is a different metal material, multiply the value of the rated operating distance for a reduction factor. The table beside shows the average reduction factors of materials according to the standards.

REDUCTION FACTOR	
Fe37	1 x Sn*
Stainless Steel AISI316L (X2CrNiMo17-12-2, UNI EN 10088-3)	0,9 x Sn
Brass-Bronze (CuZn33, UNI EN 12163:1999)	0,5 x Sn
Aluminum (25°C) (EN AW-1060, UNI EN 573-3:2006)	0,4 x Sn
Copper (Cu-DHP, UNI EN 1652:1999)	0,3 x Sn



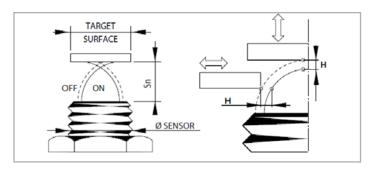
Sn: Nominal operating distance. It does not take into account either manufacturing tolerances or variations due to external conditions such as voltage and temperature

Su: Usable operating distance, measured over the whole temperature and supply voltage range specified for the sensor.

Sa: Assured operating distance over the whole temperature and supply voltage range specified for the sensor.

HYSTERESIS (H):

distance between the point of switching on and the point of switching off of the trigger object. The value is a percentage of the nominal switching distance Sn.



AC/DC VERSION:

Are available 2/3-wires versions (M12, M18, M30) , that operate in alternating current with voltage drop of 5 V for currents of the order of 100mA.

To be able to provide a proper potential drop at the load, it is recommended to power the sensors with at least a supply voltage equal to the Voltage drop indicated (5V).







The Stainless Steel series is rated IP69K.



M12/18/30 FLUSH Vdc models are ATEX certified II 3G EX nA II T6
II 3D EX tD A22 IP67 T85°C

Operating distance

MODEL	М4	M5	M6,5	М8	M12	M18	M30	SQUARE
DIAMETER (mm)	4	5	6,5	8	12	18	30	8X8; 40X40
OPERATING DISTANCE (mm)	0,8	0,81,5	13	1,53	28	514	1020	1,530

Housing

The following tables are showing the approximate housing length (mm) for the tubular inductive sensors and the absolute maximum installation limit of the mounting torque.

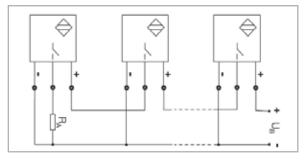
MODELS	STANDARD MOI	DEL LENGTH (mm)	SHORT MODE	L LENGTH (mm)
MODELS	connector			
M4		25		
M5	40	2025		
M6,5	5363	4655	5054	4044
M8	5273	4455	4857	4044
M12	6872	5864	4854	4248
M18	7382	7078	5665	4756
M30	7485	7082	5668	4956

	INSTALLATION TIGHT	ENING TORQUE		
Mounting	Flush, No Flush Mountable	Diameter	A (11 Mm)	В
Housing Material	Stainless Steel, Nickel Brass	4 Mm	1,5 [Nm]	1,5 [Nm]
	B A	5 Mm	1,5 [Nm]	1,5 [Nm]
	—	8 Mm	2 [Nm]	4 [Nm]
Installation		12 Mm	6 [Nm]	10 [Nm]
	μ μ ρ	18 Mm	20 [Nm]	30 [Nm]
	₽ A	30 Mm	40 [Nm]	60 [Nm]

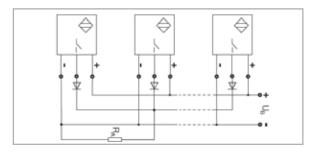
Wires

TYPE	DESCRIPTION
	Work with sinking or sourcing devices
2-3 WIRES	Vdc, Vac and NAMUR versions
	Higher leakage current
	Must select PNP or NPN, NC or NO version
3 WIRES	10-30 Vdc version
	Low leakage current
/ WIDEC	Programmable output
4 WIRES	PNP/NPN and NC/NO in one device

The number of inductive proximity sensors that can be connected in series or parallel is limited.



Parallel connection: the leakage current of each single sensor, when added to the other, may accumulate and drive the load even in the absence of operated switches.



This problem is more relevant in versions AC 2-wire, because of the high voltages and currents supplied to the sensor. For this type of connection you should use a 3-wire sensors working in DC.

Electrical Parameters

NOMINAL VOLTAGE

Is the permissible voltage range in which certain safe operation of the switch is guaranteed.

• **RESIDUAL RIPPLE**

Is the maximum admissible ripple of the DC supply voltage shown as percentage to its medium value.

• MAX. OUTPUT CURRENT

It shows maximum output current a sensor can cope with when working steadly.

• MIN. OUTPUT CURRENT

Is the smallest load current required for function of the switch when ON.

RESIDUAL CURRENT

Is the current flowing through the load when a proximity switch is not conducting (open).

VOLTAGE DROP

Is the voltage measured across the load of a closed (conducting) sensor at load current.

• START UP DELAY

Is the time from when the supply voltage is applied, and the proximity switch assumes the ready state. This time may not be longer than 300 ms. During this time there must be no fault signal longer than 2 ms.

• SWITCHING FREQUENCY

Refers to the maximum number of switching operations per second.

• SHORT CIRCUIT PROTECTION

Is 100 A, i. e., per EN 60947-5-2 the power supply during testing in short circuit mode must be able to provide at least 100 A for a short duration. This current is prescribed in the standard in order to test.

PROTECTION AGAINST INVERSION OF POLARITY

Available in DC supplied type, it prevents the sensor from being damage when supply cables are incorrectly connected.

• INDUCTIVE LOAD PROTECTION

It protects sensor output in presence of high inductive loads. This protection is performed by a diode or zenner diode.

INDEX

08 32 **BASIC** STAINLESS STEEL

- Nickel-plated Brass housing
- LCP active face
- Standard length
- Short length
- Normal and Double range Operating distance
- Operating distance: 1,5 ... 20 mm
- M6,5, M8, M12, M18, M30
- cable, M8 or M12 connector
- 2, 3 or 4 wires
- PNP, NPN, PNP/NPN, NO, NC, NO/NC
- IP67 protection

- Stainless Steel housing
- M4, M5 POM active face M6,5, M8, M12, M18, M30 LCP active face
- Standard length
- Short length
- Normal and Double range Operating distance
- Operating distance 0.8 ... 20 mm
- M4, M5, M6,5, M8, M12, M18, M30
- cable, M8 or M12 connector
- 3 wires
- PNP, NPN, NO, NC
- IP69K protection

54 60 **INDUCTIVE AC NAMUR**

- Nickel-plated Brass housing
- PA 16 active face
- Standard length
- Operating distance 2 ... 10 mm
- M12. M18. M30
- cable or M12 connector
- 20+250 Vac (50,60 Hz)
- 2 or 3 wires
- N0
- IP67 protection

- Nickel-plated Brass housing
- LCP active face
- Short length
- Operating distance 0.8 ... 15 mm
- M12, M18
- cable, M8 or M12 connector
- 2 wires
- PNP, NO
- IP67 protection

M4

- Flush
- Stainless steel
- Op.Dist.: 0.8 Mm - Diameter: 4 mm
- 3 Wires
- Pnp or npn, n.O.
- Cable

M5

- Flush
- Stainless steel
- Op.Dist.: 0,8 Mm
- Double range vers.: 1,5 Mm
- Diameter: 5 mm
- 3 Wires
- Namur vers.
- Pnp or npn, n.O., N.C.
- M8 connector or cable

M6.5

- Flush, non-flush
- Stainless steel, nickel plated-
- Op.Dist.: 1,5...2 Mm
- Double range vers.: 2...3 Mm
- Diameter: 6,5 mm
- Standard or short housing
- 3 Wires
- Namur (2wires) vers.
- Pnp or npn, n.O., N.C.
- M8 connector or cable

M8

- Flush, non-flush
- Stainless steel, nickel plated-
- Op.Dist.: 1,5...2 Mm
- Double range vers.: 2...3 Mm
- Diameter: 8 mm
- Standard or short housing
- 3 Wires
- Namur (2wires) vers.
- Pnp or npn. n.O., N.C.
- M8, m12 connector or cable

M12

- Flush, non-flush
- Stainless steel, nickel plated-
- Op.Dist.: 2...4 Mm
- Double range vers.: 4...8 Mm
- Diameter: 12 mm
- Standard or short housing
- 2, 3, 4 (Programmable npn/ pnp output) wires
- Vac/vdc vers.
- Metal face vers.
- Namur vers.
- Field immune vers.
- Pnp or npn, n.O., N.C.
- M12 connector or cable

- Stainless Steel AISI 303 active face
- Stainless Steel active face
- Standard length
- 2 ... 8 mm
- M12, M18
- M12 connector
- 3 wires
- PNP, NO
- IP67 protection

- Stainless Steel housing
- PTFE active face

WELD FIELD IMMUNE

- Standard length
- Operating distance 2 ... 8 mm
- M12, M18
- M12 connector
- 3 wires
- PNP, NO
- IP67 protection

70 **SQUARE**

- PBT (resin) or Nickel-plated Brass housing
- Operating distance 1.5 ... 15 mm
- 40x40 mm or 8x8 mm dimension
- cable, M8 connector or Terminal Block
- 2 or 3 wires
- PNP, PNP/NPN, NO, NC, NO/NC
- IP67

CAPACITIVE

76

- Nickel plated brass
- M18, M30
- Basic line NO-NC
- Capacitive A.C. (plastic housing)
- Multivoltage (SPDT relay)
- Operating distance: 5...25 mm
- Cable or M8 connector
- 2,4,6 wires
- PNP or NPN, N.O. and N.C. outputs, SPDT relay
- Delay ON or delay OFF model
- IP67 protection

CABLES, CONNECTORS & ACCESSORIES

84

M18

- Flush, non-flush
- Stainless steel, nickel plated-brass
- Op.Dist.: 5...8 Mm
- Double range vers.: 8...14 Mm
- Diameter: 18 mm
- Standard or short housing
- 2, 3 4 (Programmable npn/pnp output) wires
- Vac/vdc vers.
- Metal face vers.
- Field immune vers.
- Namur vers.
- Pnp or npn, n.O., N.C.
- M12 connector or cable
- Capacitive d.C., N.O.-N.C. Outputs
- Capacitive a.C., 2 Wires, n.O.

M30

- Flush, non-flush
- Stainless steel, nickel plated-brass
- Op.Dist.: 10...15 Mm
- Double range vers.: 15...20 Mm
- Diameter: 30 mm
- Standard or short housing
- 2, 3, 4 (Programmable npn/pnp output) wires
- Vac/vdc vers.
- Namur vers.
- Pnp or npn, n.O., N.C.
- M12 connector or cable
- Capacitive d.C., N.O.-N.C. Outputs
- Capacitive a.C., 2 Wires, n.O.
- Capacitive multivoltage with timer relay output

SQUARE 40X40

- Flush, non-flush
- Standard or short housing
- Plastic (pbt resin)
- Op.Dist.: 15...30 Mm; 7-20 mm (analog vers.)
- Diameter: 40 mm
- 2, 3 Wires
- Vac/vdc vers.
- Analog output 4-20ma vers.
- Pnp or npn, n.O., N.C.
- Terminal block

SQUARE 8X8

- Nickel-plated brass
- Op.Dist.: 1,5 Mm
- Diameter: 8 mm
- 3 Wires, pnp, n.O.
- M8 connector or cable

Nickel-plated Brass housing

LCP active face

Standard length

Short length

Normal and double range operating distance

Operating distance: 1,5 ... 20 mm

M6,5, M8, M12, M18, M30

cable, M8 or M12 connector

2, 3 or 4 wires

PNP, NPN, PNP/NPN, NO, NC, NO/NC

IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

M12/18/30 models are Diversey and ECOLAB tested









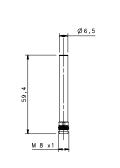
BASIC

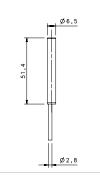


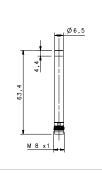


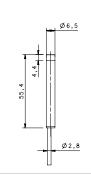
BASIC M6.5





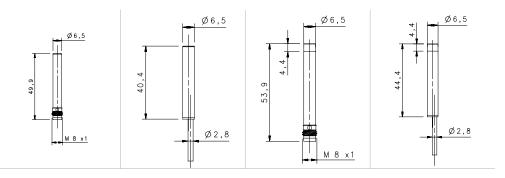






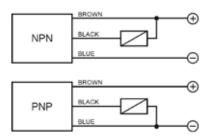
				STANDARD						
				- FL	USH	NON I	FLUSH			
				M8 conn	cable	M8 conn	cable			
IOMINAL SWITC	HING DISTAN	NCE		1,5 mm	1,5 mm	2 mm	2 mm			
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.							
10.001/1	PNP		order No.	IS-65-A1-S1	IS-65-A1-03	IS-65-C1-S1	IS-65-C1-03			
10-30 Vdc	N0	3 wires	order No.	95B066050	95B064730	95B066210	95B064890			
10.001/1	PNP			IS-65-A2-S1	IS-65-A2-03	IS-65-C2-S1	IS-65-C2-03			
10-30 Vdc	NC	3 wires	order No.	95B066090	95B064770	95B066250	95B066300			
10.003//	NPN			IS-65-A3-S1	IS-65-A3-03	IS-65-C3-S1	IS-65-C3-03			
10-30 Vdc	NO NO	3 wires	order No.	95B064970	95B064650	95B066130	95B064810			
10.003/1	NPN			IS-65-A4-S1	IS-65-A4-03	IS-65-C4-S1	IS-65-C4-03			
10-30 Vdc	NC	3 wires	order No.	95B066010	95B064690	95B066170	95B064850			
10-30 Vdc	PNP	4 wires								
10-30 vuc	NO-NC	4 WII CS	order No.							
10-30 Vdc	NPN	4 wires								
10-30 vuc	NO-NC	4 WIICS	order No.							
10-30 Vdc	NO-NC	2 wires								
10-30 vuc	INO-INC	2 WIIES	order No.							
20-250 Vac/Vdc	NO	2 wires								
20-230 vac/ vuc	INO	2 WIIES	order No.							
20-250 Vac/Vdc	NC	2 wires								
ZU-ZJU Vac/ Vuc	INC	2 WIIES	order No.							
20-250 Vac	NO	2/3 wires								
ZU-ZJU VdC	INU	Z/J WII ES	order No.							
10-30 Vdc	Analog 0-20	3 wires								
10-30 vuc	mA	5 WITES	order No.							
NAMUR amplifier	NAMUR	2 wires								
NAMOR ampuller	NUMBRI	2 WII es	order No.							
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)			
Nominal vollage				10-30 Vac (-13/1070)	10-30 Vuc (-13/10%)	10-30 Vuc (-13/10%)	10-30 Vuc (-13/10%)			

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mm	200 mA	200 mm	200 mA
Min. Output Current				
Residual Current	< 1,6 mA	< 1,6 mA	< 1,6 mA	< 1,6 mA
Voltage Drop	< 1,2 V (I=100 mA)	< 1,2 V (I=100 mA)	< 1,2 V (I=100 mA)	< 1,2 V (I=100 mA)
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity revers
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		3x 0,14 mm ²		3x 0,14 mm ²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active Face	LCP	LCP	LCP	LCP
Tightening torque				
Weight - Cable Output		80 g		80 g
Weight - Connector Output	40 g		40 q	

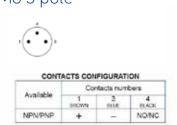


	SH	ORT	
FLU		NON F	LUSH
M8 conn	cable	M8 conn	cable
1,5 mm	1,5 mm	2 mm	2 mm
IS-65-B1-S1	IS-65-B1-03	IS-65-D1-S1	IS-65-D1-03
95B066070	95B064750	95B066230	95B064910
IS-65-B2-S1 95B066110	IS-65-B2-03 95B064790	IS-65-D2-S1 95B066270	IS-65-D2-03 95B064950
			IS-65-D3-03
IS-65-B3-S1	IS-65-B3-03	IS-65-D3-S1	
95B064990	95B064670	95B066150	95B064830
IS-65-B4-S1	IS-65-B4-03	IS-65-D4-S1	IS-65-D4-03
95B066030 	95B064710 	95B066190 	95B066190
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10. 20 V/da / 1E/100//
< 10%			10-30 Vdc (-15/10%)
	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal	Against polarity reversal	Against polarity reversal
inductive loads	inductive loads	inductive loads	inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm ²		3 x 0,14 mm ²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
	80 g		80 g
40 g		40 g	

3 wires PNP or NPN

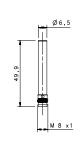


M8 3 pole



BASIC M6.5

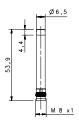


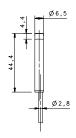




				SHOR	T X2
				FLUS	
				M8 conn	cable
IOMINAL SWITC	HING DISTAN	ICE		2 mm	2 mm
10-30 Vdc	PNP/NPN	4 wires			
10 30 vac	NO-NC	4 WIICS	order No.		
10-30 Vdc	PNP	3 wires		IS-65-G1-S1	IS-65-G1-03
	N0	0 111100	order No.	95B066060	95B064740
10-30 Vdc	PNP	3 wires		IS-65-G2-S1	IS-65-G2-03
	NC		order No.	95B066100	95B064780
0-30 Vdc	NPN	3 wires		IS-65-G3-S1	IS-65-G3-03
	N0		order No.	958064980	95B064660
0-30 Vdc	NPN	3 wires		IS-65-G4-S1	IS-65-G4-03
	NC		order No.	95B066020	95B064700
0-30 Vdc	PNP NO-NC	4 wires	order No.		
	NPN		oraci No.		
0-30 Vdc	NPN NO-NC	4 wires	order No.		
			JIUCI IVU.		
0-30 Vdc	NO-NC	2 wires	order No.		
			order No.		
?0-250 Vac/Vdc	N0	2 wires	order No.		
			order No.		
0-250 Vac/Vdc	NC	2 wires	order No.		
			order No.		
20-250 Vac	N0	2/3 wires	order No.		
	Analog 0-20		order No.		
10-30 Vdc	mA	3 wires	order No.		
			order No.		
NAMUR amplifier	NAMUR	2 wires	order No.		
			order ivo.		
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				<10%	<10%
lysteresis				< 10%	< 10%
lax. Output Current	•			200 mA	200 mA
in. Output Curren					
Residual Current	•			< 10 mA	< 10 mA
oltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
peration Led				Yellow	Yellow
witching Frequent	rv			500 Hz	500 Hz
itart Up Delay	-7			< 75 ms	< 75 ms
Repeatability				< 3%	< 3%
Short Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal	Against polarity reversal
				inductive loads	inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67
Cable Length					2 m
Cable Section					3 x 0,14 mm ²
Housing Material				Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP
Tightening torque					
Weight - Cable Outp	ut				80 g
Wainht Cannaster	Output			/0 a	

Weight - Connector Output

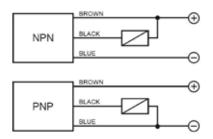




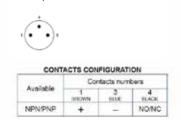
SHOI	RT X 2
	FLUSH
M8 conn	cable
3 mm	3 mm
IS-65-H1-S1	IS-65-H1-03
95B066220	95B064900
IS-65-H2-S1	IS-65-H2-03
95B066260	95B064940
IS-65-H3-S1	IS-65-H3-03
95B066140	95B064820
IS-65-H4-S1	IS-65-H4-03
95B066180	95B064860

40.00 // 45/400	10.00111.4.5/400/
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
10. 4	
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (l=100mA)
Yellow	Yellow
500 Hz	500 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP67	IP67
	2 m
	3 x 0,14 mm ²
Nickel-plated brass	Nickel-plated brass
LCP	LCP
	80 g
40 g	

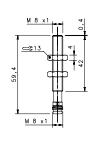
3 wires PNP or NPN

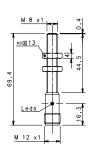


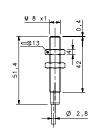
M8 3 pole



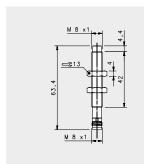


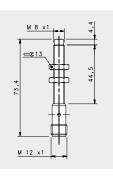


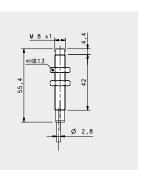




IG DISTAN INP/NPN 10-NC INP 100 INP 100 IPN 100 IPN 100-NC	4 wires 3 wires 3 wires 4 wires 4 wires 4 wires 2 wires 2 wires 2/3wires	order No.	M8 conn 1,5 mm IS-08-A1-S1 95B061141 IS-08-A2-S1 95B061171 IS-08-A3-S1 95B061081 IS-08-A4-S1 95B061111	## STANDARD FLUSH	cable 1,5 mm IS-08-A1-03 95B061121 IS-08-A2-03 95B061151 IS-08-A3-03 95B061061 IS-08-A4-03 95B061091
NP/NPN 10-NC NP 10 10 NP 10 10 NP 10 IC IPN 10 IPN 10-NC IPN 10-NC ID-NC	4 wires 3 wires 3 wires 3 wires 4 wires 4 wires 2 wires 2 wires 2 wires	order No.	1,5 mm IS-08-A1-S1 95B061141 IS-08-A2-S1 95B061171 IS-08-A3-S1 95B061081 IS-08-A4-S1 95B061111	M12 conn 1,5 mm IS-08-A1-S2 95B061131 IS-08-A2-S2 95B061161 IS-08-A3-S2 95B061071 IS-08-A4-S2 95B061101	1,5 mm IS-08-A1-03 95B061121 IS-08-A2-03 95B061151 IS-08-A3-03 95B061061 IS-08-A4-03 95B061091
NP/NPN 10-NC NP 10 10 NP 10 10 NP 10 IC IPN 10 IPN 10-NC IPN 10-NC ID-NC	4 wires 3 wires 3 wires 3 wires 4 wires 4 wires 2 wires 2 wires 2 wires	order No.	1,5 mm IS-08-A1-S1 95B061141 IS-08-A2-S1 95B061171 IS-08-A3-S1 95B061081 IS-08-A4-S1 95B061111	1,5 mm IS-08-A1-S2 95B061131 IS-08-A2-S2 95B061161 IS-08-A3-S2 95B061071 IS-08-A4-S2 95B061101	1,5 mm IS-08-A1-03 95B061121 IS-08-A2-03 95B061151 IS-08-A3-03 95B061061 IS-08-A4-03 95B061091
NP/NPN 10-NC NP 10 10 NP 10 10 NP 10 IC IPN 10 IPN 10-NC IPN 10-NC ID-NC	4 wires 3 wires 3 wires 3 wires 4 wires 4 wires 2 wires 2 wires 2 wires	order No.	S-08-A1-S1	S-08-A1-S2 95B061131 IS-08-A2-S2 95B061161 IS-08-A3-S2 95B061071 IS-08-A4-S2 95B061101	IS-08-A1-03 95B061121 IS-08-A2-03 95B061151 IS-08-A3-03 95B061061 IS-08-A4-03 95B061091 IS-08-A4-03 95B061091 IS-08-A4-03 95B061091 IS-08-A4-03 95B061091 IS-08-A4-03 95B061091 IS-08-A4-03 95B061091 IS-08-A4-03 IS-08-A4-03 95B061091 IS-08-A4-03 IS-08-A4-03 95B061091 IS-08-A4-03 IS-08-A4
IO-NC NP IO NP IC IPN IO IC IPN IO IC IPN IO IO-NC IO-NC IO IC IO IO IC IO	3 wires 3 wires 3 wires 4 wires 4 wires 2 wires 2 wires 2 wires	order No.	IS-08-A1-S1 95B061141 IS-08-A2-S1 95B061171 IS-08-A3-S1 95B061081 IS-08-A4-S1 95B061111	S-08-A1-S2	IS-08-A1-03 95B061121 IS-08-A2-03 95B061151 IS-08-A3-03 95B061061 IS-08-A4-03 95B061091
NP IO NP IC IPN IO NP IC IPN IO IO-NC IPN IO-NC IO IC IO IC IO Inalog 0-20	3 wires 3 wires 3 wires 4 wires 4 wires 2 wires 2 wires 2 wires	order No.	IS-08-A1-S1 95B061141 IS-08-A2-S1 95B061171 IS-08-A3-S1 95B061081 IS-08-A4-S1 95B061111	IS-08-A1-S2 95B061131 IS-08-A2-S2 95B061161 IS-08-A3-S2 95B061071 IS-08-A4-S2 95B061101	IS-08-A1-03 95B061121 IS-08-A2-03 95B061151 IS-08-A3-03 95B061061 IS-08-A4-03 95B061091
IO NP IC IPN IO IPN IC IPN IO IO-NC IO-NC IO IC IO IO IC IO IO IC IO	3 wires 3 wires 4 wires 4 wires 2 wires 2 wires 2 wires	order No.	958061141 IS-08-A2-S1 958061171 IS-08-A3-S1 958061081 IS-08-A4-S1 958061111	958061131 IS-08-A2-S2 958061161 IS-08-A3-S2 958061071 IS-08-A4-S2 958061101	95B061121 IS-08-A2-03 95B061151 IS-08-A3-03 95B061061 IS-08-A4-03 95B061091
NP IC IPN IO IO IO IO IO IC IO Inalog 0-20	3 wires 3 wires 4 wires 4 wires 2 wires 2 wires 2 wires	order No.	IS-08-A2-S1 95B061171 IS-08-A3-S1 95B061081 IS-08-A4-S1 95B061111	IS-08-A2-S2 95B061161 IS-08-A3-S2 95B061071 IS-08-A4-S2 95B061101	IS-08-A2-03 95B061151 IS-08-A3-03 95B061061 IS-08-A4-03 95B061091
IC IPN IO	3 wires 3 wires 4 wires 2 wires 2 wires 2 wires	order No. order No. order No. order No. order No. order No.	958061171 IS-08-A3-S1 958061081 IS-08-A4-S1 958061111	958061161 IS-08-A3-S2 958061071 IS-08-A4-S2 958061101	95B061151 IS-08-A3-03 95B061061 IS-08-A4-03 95B061091
IPN IO IO IPN IC IPN IO-NC IO-NC IO IC IO IC IO Inalog 0-20	3 wires 3 wires 4 wires 2 wires 2 wires 2 wires	order No. order No. order No. order No. order No. order No.	IS-08-A3-S1 95B061081 IS-08-A4-S1 95B061111	IS-08-A3-S2 95B061071 IS-08-A4-S2 95B061101	IS-08-A3-03 95B061061 IS-08-A4-03 95B061091
IO	3 wires 4 wires 2 wires 2 wires 2 wires	order No. order No. order No. order No. order No.	958061081 IS-08-A4-S1 958061111	958061071 IS-08-A4-S2 958061101	958061061 IS-08-A4-03 958061091
IO	3 wires 4 wires 2 wires 2 wires 2 wires	order No. order No. order No. order No. order No.	IS-08-A4-S1 958061111	IS-08-A4-S2 95B061101	IS-08-A4-03 95B061091
IC NPP 10-NC PN 10-NC	4 wires 4 wires 2 wires 2 wires 2 wires	order No. order No. order No.	95B061111	95B061101	95B061091
IC NPP 10-NC PN 10-NC	4 wires 4 wires 2 wires 2 wires 2 wires	order No. order No. order No.	 	 	
IO-NC IPN IO-NC I	4 wires 2 wires 2 wires 2 wires	order No. order No. order No.	 	 	
IO-NC IPN IO-NC I	4 wires 2 wires 2 wires 2 wires	order No.			
IPN IO-NC IO-NC IO IC IO IO	2 wires 2 wires	order No.			
IO-NC IO-NC IO	2 wires 2 wires	order No.			
IO-NC IO IC IO Inalog 0-20	2 wires	order No.			
10 10 10 10 nalog 0-20	2 wires	order No.			
IC IO nalog 0-20	2 wires	order No.			
IC IO nalog 0-20	2 wires				
IC IO nalog 0-20	2 wires				
10 .nalog 0-20		order No.			
10 .nalog 0-20		order No.			
nalog 0-20	2/3 wires				
nalog 0-20					
	,	order No.			
	2				
	3 wires	order No.			
IAMUR	2 wires	order No.			
			10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
			< 10%	< 10%	< 10%
			< 10%	< 10%	< 10%
			200mA	200mA	200mA
			< 10 mA	< 10 mA	< 10 mA
					< 1,2 V (I=100mA)
					Yellow
					1000 Hz
					< 50 ms
					< 3%
1			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
			(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
			IP67	IP67	IP67
					2 m
					3x 0,14 mm²
					Nickel-plated brass
			·	-	LCP
					* see page 5 of the Inductive Sensors Catal
			see page 3 of the inductive sensors catalog	see page 5 of the inductive sensors catalog	
				FF	80 g
<u> </u>				inductive loads (-25 +70 °C) IP67 Nickel-plated brass LCP * see page 5 of the Inductive Sensors Catalog	Yellow Yellow 1000 Hz 1000 Hz < 50 ms

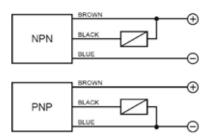






	STANDARD	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
IS-08-C1-S1	IS-08-C1-S2	IS-08-C1-03
95B061541	95B061531	95B061521
IS-08-C2-S1	IS-08-C2-S2	IS-08-C2-03
95B061571	95B061561	95B061551
IS-08-C3-S1	IS-08-C3-S2	IS-08-C3-03
95B061481	95B061471	95B066410
IS-08-C4-S1	IS-08-C4-S2	IS-08-C4-03
95B061511	95B061501	95B066450
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
 < 10 mA	 < 10 mA	 < 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal	Against polarity reversal
inductive loads	inductive loads	inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67
		2 m
		3x 0,14 mm ²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP
see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalo
see page of the madelive sensors edialog	222 page 5 of the inductive Scrisors catalog	80 g
35a	55a	00 9

3 wires PNP or NPN



M123 pole



C	ONTACTS	CONFIGU	RATION	
Available		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		77.0	NOING

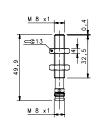
M8 3 pole

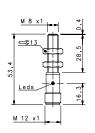


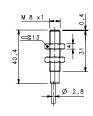
.000.000.00	Contacts numbers			
Available	1 IROWN	3 HUE	HACK	
NPN/PNP	+	=	NO/NO	

35g

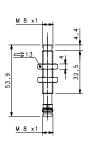


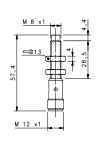


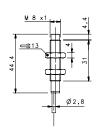




					SHORT	
					FLUSH	
				M8 conn	M12 conn	cable
IOMINAL SWITC	HING DISTAN	ICE		1,5 mm	1,5 mm	1,5 mm
10-30 Vdc	PNP/NPN	4 wires				
10-30 vac	NO-NC	4 WITES	order No.			
10-30 Vdc	PNP	3 wires		IS-08-B1-S1	IS-08-B1-S2	IS-08-B1-03
10-30 Vac	NO	3 WILES	order No.	95B066860	95B066590	95B061921
0-30 Vdc	PNP	3 wires		IS-08-B2-S1	IS-08-B2-S2	IS-08-B2-03
0-30 vuc	NC	2 Miles	order No.	95B066890	95B066620	95B061951
0-30 Vdc	NPN	3 wires		IS-08-B3-S1	IS-08-B3-S2	IS-08-B3-03
10-30 vuc	N0	NO order No.		95B066810	95B066530	95B061861
0-30 Vdc	NPN	3 wires		IS-08-B4-S1	IS-08-B4-S2	IS-08-B4-03
0-30 vac	NC	3 WILES	order No.	95B066830	95B066560	95B061891
0-30 Vdc	PNP	4 wires				
0-30 vac	NO-NC	4 WITES	order No.			
0-30 Vdc	NPN	4 wires				
U-30 VCC	NO-NC	4 Wires	order No.			
0-30 Vdc	NO-NC	2 wires				
10-30 Vac	NU-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires				
20-250 Vac/Vac	NU	2 wires	order No.			
20-250 Vac/Vdc	NC	2 wires				
:0-250 VaC/VuC	INC	2 WITES	order No.			
20-250 Vac	NO	2/3 wires				
10-230 Vac	140	Z/3 WIIES	order No.			
0-30 Vdc	Analog 0-20	3 wires				
0-30 vac	mA	order No.				
NAMUR amplifier	lifier NAMUR 2 wires					
VAINOR ampulier	NAMON	Z WIIES	order No.			
Iominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%
lysteresis				< 10%	< 10%	< 10%
Max. Output Current				200mA	200mA	200mA
Min. Output Current	t					
Residual Current				< 10 mA	< 10 mA	< 10 mA
/oltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
peration Led				Yellow	Yellow	Yellow
Switching Frequenc	y			1000 Hz	1000 Hz	1000 Hz
Start Up Delay				< 50 ms	< 50 ms	< 50 ms
Repeatability				< 3%	< 3%	< 3%
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
emperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67	IP67
Cable Length						2 m
Cable Section						3 x 0,14 mm ²
lousing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP
ightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Cata
Weight - Cable Outpu	ut			i i jan	, , , , , , , , , , , , , , , , , , , ,	80 g



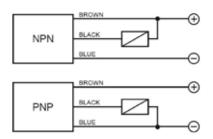




	SHORT	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
IS-08-D1-S1	IS-08-D1-S2	IS-08-D1-03
95B066970	95B066700	95B062321
IS-08-D2-S1	IS-08-D2-S2	IS-08-D2-03
95B067000	95B066720	95B062351
IS-08-D3-S1	IS-08-D3-S2	IS-08-D3-03
95B066920	95B066650	95B066430
IS-08-D4-S1	IS-08-D4-S2	IS-08-D4-03
95B066940	95B066670	95B062291
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67
		2 m
		3 x 0,14 mm ²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP
see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalo
		80 g

55g

3 wires PNP or NPN



M123 pole



4

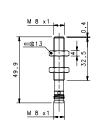
M8 3 pole

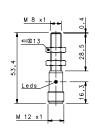


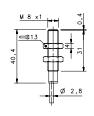
CONT	ACTS CON	FIGURAT	ION	
20.22	Contacts numbers			
Available	1 BROWN	3 HUE	HACK	
NPN/PNP	+	-	NO/NO	

35g

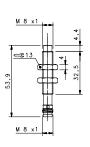


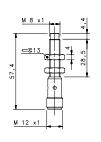


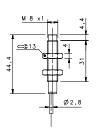




					SHORT X2	
					FLUSH	
				M8 conn	M12 conn	cable
OMINAL SWITCH	ING DISTANCE			2 mm	2 mm	2 mm
10-30 Vdc	PNP/NPN	4 wires				
0-30 vuc	NO-NC	4 WIIC3	order No.			
0-30 Vdc	PNP	3 wires		IS-08-G1-S1	IS-08-G1-S2	IS-08-G1-03
10-30 vuc	N0	3 WIIES	order No.	95B066850	95B066580	95B066370
0.307/4-	PNP	2		IS-08-G2-S1	IS-08-G2-S2	IS-08-G2-03
0-30 Vdc	NC	3 wires	order No.	95B066880	95B066610	95B066390
0.001/1	NPN			IS-08-G3-S1	IS-08-G3-S2	IS-08-G3-03
0-30 Vdc	NO	3 wires	order No.	95B066800	95B066520	95B066330
	NPN			IS-08-G4-S1	IS-08-G4-S2	IS-08-G4-03
0-30 Vdc	NC	3 wires	order No.	95B063131	95B066550	95B066350
	PNIP					
0-30 Vdc	NO-NC	4 wires	order No.			
			oraci ivo.			
0-30 Vdc	NPN NO-NC	4 wires	order No			
	140-140		order No.			
0-30 Vdc	NO-NC	2 wires	1 1			
			order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
		2 0				
0-250 Vac/Vdc	NC	2 wires				
200 140, 140		2 1111100	order No.			
20-250 Vac	NO	2/3 wires				
.0 230 vac	110	order No				
0-30 Vdc	Analog 0-20	3 wires				
10-30 Vuc	mA	3 WIIES	order No.			
NAMUR amplifier	NAMUR					
чамок аттринет	NAMOR	2 wires	order No.			
Manain at Malana				10 20 \/- (15/100/)	10 20 \/d- / 15 /100/ \	10.20.14- / 15/100/)
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%
Max. Output Current				200mA	200mA	200mA
Min. Output Current	ł					
Residual Current				< 10 mA	< 10 mA	< 10 mA
/oltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
peration Led				Yellow	Yellow	Yellow
Switching Frequenc	:y			500 Hz	500 Hz	500 Hz
witching rrequent				< 75 ms	< 75 ms	< 75 ms
					90/	< 3%
Start Up Delay				< 3%	< 3%	< 3%
Start Up Delay Repeatability				< 3% Present (self-resetting)	< 3% Present (self-resetting)	Present (self-resetting)
Start Up Delay Repeatability Short Circuit Protec				Present (self-resetting) Against polarity reversal	Present (self-resetting) Against polarity reversal	Present (self-resetting) Against polarity reversal
start Up Delay Repeatability Short Circuit Protection				Present (self-resetting) Against polarity reversal inductive loads	Present (self-resetting) Against polarity reversal inductive loads	Present (self-resetting) Against polarity reversal inductive loads
Start Up Delay Repeatability Short Circuit Protection Electric Protection				Present (self-resetting) Against polarity reversal inductive loads (-25 +60 °C)	Present (self-resetting) Against polarity reversal inductive loads (-25 +60 °C)	Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C)
Start Up Delay Repeatability Short Circuit Protection Semperature Limit Protection Degree				Present (self-resetting) Against polarity reversal inductive loads (-25 +60 °C) IP67	Present (self-resetting) Against polarity reversal inductive loads (-25 +60 °C) IP67	Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67
Start Up Delay Repeatability Short Circuit Protect Clectric Protection Cemperature Limit Protection Degree Cable Length				Present (self-resetting) Against polarity reversal inductive loads (-25 +60 °C) IP67	Present (self-resetting) Against polarity reversal inductive loads (-25 +60 °C) IP67	Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 m
Start Up Delay Repeatability Short Circuit Protect Electric Protection Temperature Limit Protection Degree Cable Length Cable Section				Present (self-resetting) Against polarity reversal inductive loads (-25 +60 °C) IP67	Present (self-resetting) Against polarity reversal inductive loads (-25 +60 °C) IP67	Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 m 3 x 0,14 mm²
Start Up Delay Repeatability Short Circuit Protect Flectric Protection Femperature Limit Protection Degree Cable Length Cable Section Housing Material				Present (self-resetting) Against polarity reversal inductive loads (-25 +60 °C) IP67 Nickel-plated brass	Present (self-resetting) Against polarity reversal inductive loads (-25 +60 °C) IP67 Nickel-plated brass	Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 m 3 x 0,14 mm² Nickel-plated brass
Start Up Delay Repeatability Short Circuit Protect Flectric Protection Femperature Limit Protection Degree Cable Length Cable Section Housing Material Active face				Present (self-resetting) Against polarity reversal inductive loads (-25 +60 °C) IP67 Nickel-plated brass LCP	Present (self-resetting) Against polarity reversal inductive loads (-25 +60 °C) IP67 Nickel-plated brass LCP	Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 m 3 x 0,14 mm² Nickel-plated brass LCP
Start Up Delay Repeatability Short Circuit Protection Temperature Limit Protection Degree Cable Length Cable Section Housing Material Active face Tightening torque Weight - Cable Outp	ction			Present (self-resetting) Against polarity reversal inductive loads (-25 +60 °C) IP67 Nickel-plated brass	Present (self-resetting) Against polarity reversal inductive loads (-25 +60 °C) IP67 Nickel-plated brass	Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 m 3 x 0,14 mm ² Nickel-plated brass

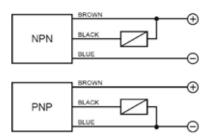






	SHORT X2	
	NON FLUSH	
M8 conn	M12 conn	cable
3 mm	3 mm	3 mm
IS-08-H1-S1	IS-08-H1-S2	IS-08-H1-03
95B066960	95B066690	95B066480
IS-08-H2-S1	IS-08-H2-S2	IS-08-H2-03
95B066990	95B063301	95B066500
IS-08-H3-S1	IS-08-H3-S2	IS-08-H3-03
95B066910	95B066640	95B066420
IS-08-H4-S1	IS-08-H4-S2	IS-08-H4-03
95B063251	95B063241	95B066460
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
200TTA	20011IA	20011A
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
500 Hz	500 Hz	500 Hz
< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal	Against polarity reversal
inductive loads	inductive loads	inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +70 °C)
IP67	IP67	IP67
		2 m
		3 x 0,14 mm ²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP
see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalo
	page 5 5. a.cauctive Scrissis Saturdy	80 g
35a	55a	

3 wires PNP or NPN



M123 pole



Available		Contacts	numbers	
	1	2	3	4
(NO or NC)	+		27/	NOING

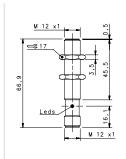
M8 3 pole

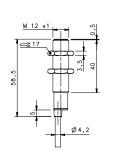


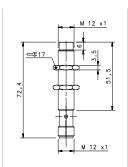
CONT	ACTS CON	FIGURAT	ION		
A	Contacts numbers				
Available	1 IROWN	3 HUE	HACK		
NPN/PNP	+	=	NO/NO		

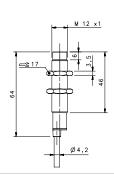
35g





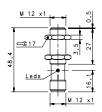


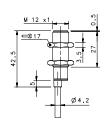


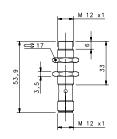


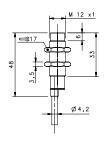
					O I AII			
				FL		NON FLUSH		
				M12 conn	cable	M12 conn	cable	
IOMINAL SWITC	HING DISTAN	ICE		2 mm	2 mm	4 mm	4 mm	
10.201/-	PNP/NPN	/i		IS-12-A0-S2	IS-12-A0-03	IS-12-C0-S2	IS-12-C0-03	
10-30 Vdc	NO-NC	4 wires	order No.	95B064060	95B064030	95B064080	95B064040	
10-30 Vdc	PNP	2		IS-12-A1-S2	IS-12-A1-03	IS-12-C1-S2	IS-12-C1-03	
10-30 Vac	NO	3 wires	order No.	95B061251	95B061241	95B061651	95B061641	
10-30 Vdc	PNP	3 wires		IS-12-A2-S2	IS-12-A2-03	IS-12-C2-S2	IS-12-C2-03	
10-30 Vac	NC	3 wires	order No.	95B061281	95B061271	95B061681	95B061671	
10-30 Vdc	NPN	3 wires		IS-12-A3-S2	IS-12-A3-03	IS-12-C3-S2	IS-12-C3-03	
10-30 Vac	N0	3 WILES	order No.	95B061191	95B061181	95B061591	95B061581	
10-30 Vdc	NPN	3 wires		IS-12-A4-S2	IS-12-A4-03	IS-12-C4-S2	IS-12-C4-03	
10-30 vac	NC	3 WILES	order No.	95B061221	95B061211	95B061621	95B061611	
10-30 Vdc	PNP	4 wires						
10-30 Vac	NO-NC		order No.					
10-30 Vdc	NPN	4 wires						
10-30 vuc	NO-NC	4 WIIES	order No.					
10-30 Vdc	NO-NC	2 wires		IS-12-A9-S2	IS-12-A9-03	IS-12-C9-S2	IS-12-C9-03	
10-30 vac	NO-NC		order No.	95B063931	95B064100	95B064140	95B064110	
20-250 Vac/Vdc	NO	2 wires						
20-230 vac/ vuc	INO	Z WIIES	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-230 vac/ vac	INC	Z WIICS	order No.					
20-250 Vac	NO	2/3 wires						
20 230 Vac	110	2/J WIICS	order No.					
10-30 Vdc	Analog 0-20	3 wires						
10 30 vuc	mA	2 MILE2	order No.					
NAMUR amplifier	NAMUR	2 wires						
INAMON ampuller	INAMON	2 WIIES	order No.					

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)
Min. Output Current	> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)
Residual Current	< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)
Voltage Drop	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²		2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output		110 g		110 g
Weight - Connector Output	60 g		60 g	





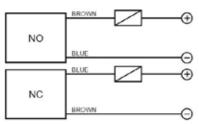




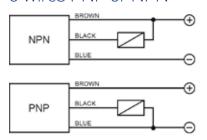
	_ CU	ORT		
FLI	JSH	NON FLUSH		
M12 conn	cable	M12conn	cable	
2 mm	2 mm	4 mm	4 mm	
IS-12-B1-S2	IS-12-B1-03	IS-12-D1-S2	IS-12-D1-03	
95B062051	95B062041	95B062451	95B062441	
IS-12-B2-S2	IS-12-B2-03	IS-12-D2-S2	IS-12-D2-03	
95B062081	95B062071	95B062481	95B062471	
IS-12-B3-S2	IS-12-B3-03	IS-12-D3-S2	IS-12-D3-03	
95B061991	95B061981	95B062391	95B062381	
IS-12-B4-S2	IS-12-B4-03	IS-12-D4-S2	IS-12-D4-03	
95B062021	95B062011	95B062421	95B062411	
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
< 10%	< 10%	< 10%	< 10%	
< 10%	< 10%	< 10%	< 10%	
200 mA	200 mA	200 mA	200 mA	
< 10 mA	< 10 mA	< 10 mA	< 10 mA	
< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	
Yellow	Yellow	Yellow	Yellow	
1000 Hz	1000 Hz	1000 Hz	1000 Hz	
< 50 ms	< 50 ms	< 50 ms	< 50 ms	
< 3%	< 50 ms	< 50 ms	< 3%	
< 3% Present (self-resetting)	< 3% Present (self-resetting)	< 3% Present (self-resetting)	< 3% Present (self-resetting	
Against polarity reversal	Against polarity reversal	Against polarity reversal	Against polarity reversa	

Against polarity reversal Against polarity reversal Against polarity reversal Against polarity reversal inductive loads inductive loads inductive loads inductive loads (-25 ... +70 °C) (-25 ... +70 °C) (-25 ... +60 °C) (-25 ... +60 °C) IP67 IP67 IP67 IP67 2 m 2 m 3 x 0,14 mm² 3 x 0,14 mm² Nickel-plated brass Nickel-plated brass Nickel-plated brass Nickel-plated brass LCP LCP LCP see page 5 of the Inductive see page 5 of the Inductive see page 5 of the Inductive * see page 5 of the Inductive Sensors Catalog Sensors Catalog Sensors Catalog Sensors Catalog 110 g 110 g 60 g 60 g

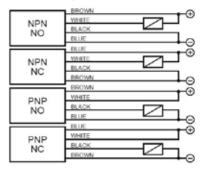
2 wires NO or NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

Contacts numbers				
3	2	3	4	
+				
- 2		+		
	+	Contacts 1 2 +	Contacts numbers 1 2 3 + - + + + + + + + + + + + + + + + + +	

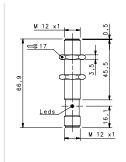
3 wires

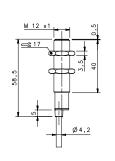
CONTACTS CONFIGURATION						
Available		Contacts	numbers	25		
Available	- 1	2	3	4		
(NO or NC)	+		-	NOINC		

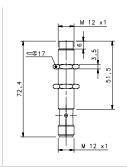
4 wires (PNP/NPN, NO/NC)

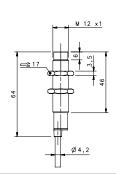
Output		Contacts	numbers	
Output	11	2	- 3	4
NPN NO	+	NO	_	-
NPN NC	-	NC	+	-
PNP NO	+	+:	-	NO
PNP NC	-	+	+	NC



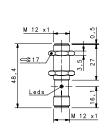


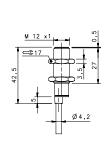


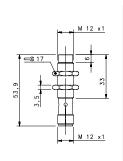


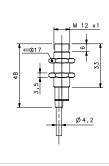


				STANDARD X2				
				FL	JSH		FLUSH	
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCHING DISTANCE				4 r	nm	8 r	mm	
10.001/1	PNP/NPN	, .		IS-12-E0-S2	IS-12-E0-03	IS-12-F0-S2	IS-12-F0-03	
10-30 Vdc	NO-NC	4 wires	order No.	95B067230	95B067190	95B067250	95B067210	
	PNP			IS-12-E1-S2	IS-12-E1-03	IS-12-F1-S2	IS-12-F1-03	
10-30 Vdc	NO	3 wires	order No.	95B067030	95B067670	95B067020	95B067740	
40.001/1	PNP			IS-12-E2-S2	IS-12-E2-03	IS-12-F2-S2	IS-12-F2-03	
10-30 Vdc	NC	3 wires	order No.	95B067640	95B067680	95B067710	95B067750	
10.201/-	NPN	2		IS-12-E3-S2	IS-12-E3-03	IS-12-F3-S2	IS-12-F3-03	
10-30 Vdc	N0	3 wires	order No.	95B067650	95B067690	95B067720	95B067760	
10.20.1/4-	NPN	2		IS-12-E4-S2	IS-12-E4-03	IS-12-F4-S2	IS-12-F4-03	
10-30 Vdc	NC	3 wires	order No.	95B067660	95B067700	95B067730	95B067770	
10.201/-	PNP							
10-30 Vdc	NO-NC	4 wires	order No.					
10 20 1/4-	NPN	/i						
10-30 Vdc	NO-NC	4 wires	order No.					
10-30 Vdc	NO NC	2		IS-12-E9-S2	IS-12-E9-03	IS-12-F9-S2	IS-12-F9-03	
10-30 Vac	NO-NC	2 wires	order No.	95B067240	95B067200	95B067260	95B067220	
20-250 Vac/Vdc	NO	2						
20-250 vac/vac	NU	2 wires	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-230 Vac/Vuc	INC	2 Wiles	order No.					
20-250 Vac	NO	2/3 wires						
20-250 Vac	NU	2/3 WIFES	order No.					
10-30 Vdc	Analog 0-20	3 wires						
10-30 Vac	mA	3 WILES	order No.					
NAMID amplifier	NAMUR	2 wires						
NAMUR amplifier	NAMOR	2 WITES	order No.					
Manada ad Walkana				10.201/4. / 15/100/	10.201/1. / 15/100/)	10.20 \\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\	10.20 \/- / 15/100/\	
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
Hysteresis				< 10%	< 10%	< 10%	< 10%	
Max. Output Current				100 mA	100 mA	100 mA	100 mA	
Min. Output Current								
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA	
Voltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA) Yellow	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
Operation Led				Yellow 500 Hz/200 Hz (2 wires NO-NC)	500 Hz/200 Hz (2 wires NO-NC)	Yellow 400 Hz/200 Hz (2 wires NO-NC)	Yellow 400 Hz/200 Hz (2 wires NO-NC	
Switching Frequency	у			< 75 ms	< 75 ms	< 75 ms	< 75 ms	
Start Up Delay Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection	cion			Against polarity reversal	Against polarity reversal	Against polarity reversal	Against polarity reversal	
				inductive loads	inductive loads	inductive loads	inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	IP67	IP67	
Cable Length								
Cable Section					2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²		2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²	
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Active face				LCP	LCP	LCP	LCP	
Tightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	
Weight - Cable Outpu	ıt			Selisors Catalog	Serisors catalog	Sensors Caratog	Selisors Catalog	
Weight - Connector (60 g	60 g	60 g	60 g	

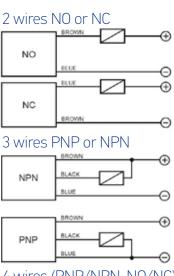




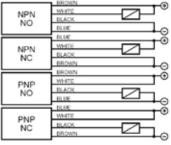




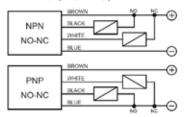
	SHOF	RT X2			
FLU		NON FLUSH			
M12 con	cable	M12 conn	cable		
4 mm	4 mm	8 mm	8 mm		
		OTHIT			
IS-12-G1-S2	IS-12-G1-03	IS-12-H1-S2	IS-12-H1-03		
95B063371	95B063361	95B063451	95B063441		
IS-12-G2-S2	IS-12-G2-03	IS-12-H2-S2	IS-12-H2-03		
95B063391	95B063381	95B063471	95B063461		
IS-12-G3-S2	IS-12-G3-03	IS-12-H3-S2	IS-12-H3-03		
95B063331	95B063321	95B063411	95B063401		
IS-12-G4-S2	IS-12-G4-03	IS-12-H4-S2	IS-12-H4-03		
95B063351	95B063341	95B063431	95B063421		
IS-12-G5-S2	IS-12-G5-03	IS-12-H5-S2	IS-12-H5-03		
95B062691	95B062681	95B062771	95B062761		
IS-12-G6-S2	IS-12-G6-03	IS-12-H6-S2	IS-12-H6-03		
95B062671	95B062661	95B062751	95B062741		
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)		
< 10%	< 10%	< 10%	< 10%		
< 10%	< 10%	< 10%	< 10%		
200 mA	200 mA	200 mA	200 mA		
> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)		
< 10 mA	< 10 mA	< 10 mA	< 10 mA		
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)		
Yellow	Yellow	Yellow	Yellow		
500 Hz/200 Hz (4 wires NO-NC)	500 Hz/200 Hz (4 wires NO-NC)	500 Hz/200 Hz (4 wires NO-NC)	500 Hz/200 Hz (4 wires NO-NC)		
< 75 ms	< 75 ms	< 75 ms	< 75 ms		
< 3%	< 3%	< 3%	< 3%		
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)		
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads		
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)		
IP67	IP67	IP67	IP67		
	2 m		2 m		
	3 x 0,14 mm² 4 x 0,25 mm²		3 x 0,14 mm ² 4 x 0,25 mm ²		
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass		
LCP	LCP	LCP	LCP		
* see page 5 of the Inductive	* see page 5 of the Inductive	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog		
Sensors Catalog	Sensors Catalog 110 g	Selisurs Catalog	110 g		



4 wires (PNP/NPN, NO/NC)



4 wires (NO+NC)



M12 connector connections



2 wires NO or NC

c	ONTACTS	CONFIGU	RATION		
Available	Contacts numbers				
ANGROUNE -	.1	2	3	- 4	
NO	+		2		
NC			+		

3 wires

C	ONTACTS	CONFIGU	RATION		
Available	Contacts numbers				
Available .	1	2	3	4	
(NO or NC)	+		-	NONC	

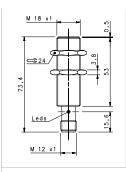
4 wires (PNP/NPN, NO/NC)

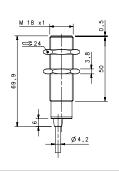
0.00		Contacts	numbers	
Output	1	2	-3	4
NPN NO	+	NO	-	-
NPN NC	-	NC.	+	-
PNP NO	+	+	-	NO
PNP NC	:	+	+	NO

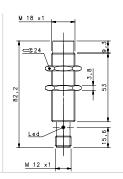
4 wires (NO+NC)

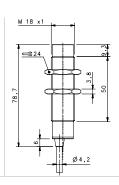
Available		Contacts	numbers.	
	1	2	3	- 4
(NO+NC)	+	NC	-	NO











				STANDARD														
				FLU		NON I	FLUSH											
				M12 conn	cable	M12 conn	cable											
NOMINAL SWITC	HING DISTAN	ICE		5 mm	5 mm	8 mm	8 mm											
10.201/-	PNP/NPN	/ i		IS-18-A0-S2	IS-18-A0-03	IS-18-C0-S2	IS-18-C0-03											
10-30 Vdc	NO-NC	4 wires	order No.	95B064260	95B064230	95B064280	95B064240											
10.201/-	PNP	2		IS-18-A1-S2	IS-18-A1-03	IS-18-C1-S2	IS-18-C1-03											
10-30 Vdc	N0	3 wires	order No.	95B061351	95B061341	95B061751	95B061741											
10.201/-	PNP	2		IS-18-A2-S2	IS-18-A2-03	IS-18-C2-S2	IS-18-C2-03											
10-30 Vdc	NC	3 wires	order No.	95B061371	95B061361	95B061771	95B061761											
10-30 Vdc	NPN	3 wires		IS-18-A3-S2	IS-18-A3-03	IS-18-C3-S2	IS-18-C3-03											
10-30 Vac	N0	3 wires	order No.	95B061311	95B061301	95B061711	95B061701											
10-30 Vdc	NPN	3 wires		IS-18-A4-S2	IS-18-A4-03	IS-18-C4-S2	IS-18-C4-03											
10-30 Vac	NC	3 wires	order No.	95B061331	95B061321	95B061731	95B061721											
10-30 Vdc	PNP	4 wires																
10-30 Vac	NO-NC	4 WITES	order No.															
10-30 Vdc	NPN	4 wires																
10-30 vac	NO-NC	4 WITES	order No.															
10-30 Vdc	NO NO	NO NG	NO NC	NO-NC	NO NC	NO NC	NO NG	NO NO	NO NC	NO NO	NO NC	NO NC	2 wires		IS-18-A9-S2	S-18-A9-03	IS-18-C9-S2	IS-18-C9-03
10-30 vac	INU-INC	2 WITES	order No.	95B063941	95B064300	95B064340	95B064310											
20 2E0 Vac/Vda	0-250 Vac/Vdc NO	2 wires																
20-250 Vac/Vac			order No.															
20-250 Vac/Vdc	NC	2 wires																
20-250 Vac/Vuc	INC	2 WITES	order No.															
20-250 Vac	NO	2/3 wires																
20-230 Vac	140	Z/3 WIIES	order No.															
10-30 Vdc	Analog 0-20	3 wires																
10-30 vuc	mA	J WII CS	order No.															
NAMUR amplifier	NAMUR	2 wires																
TVANOR diriptilier	IVAPION	2 WIICS	order No.															
Naminal Valence				10 20 \/d= / 1E/100/\	10.20.\/-/.1E/100/\	10 20 \/d= / 15/100/\	10.201/4-/.15/100/											
Nominal Voltage				10-30 Vdc (-15/10%) < 10%	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%) < 10%											
Residual Ripple Hysteresis				< 10%	< 10% < 10%	< 10% < 10%	< 10%											
•				200 mA	200 mA	200 mA	200 mA											
Max. Output Current Min. Output Current				> 1,6 mA (2wires ver.)														
min. Output Carrent Residual Current	-			< 10 mA	< 10 mA	< 10 mA	< 10 mA											
				< 1,8V; < 6,5 V (2wires ver.)														
Voltage Drop				Yellow	Yellow	Yellow	Yellow											
Operation Led Switching Frequency				1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NO											
Switching Frequent Start Up Delay	· y			< 50 ms	< 50 ms	< 50 ms	< 50 ms											
Start up Delay Repeatability				< 3%	< 3%	< 3%	< 50 ms											
nepeulubility Short Circuit Proted	rtion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)											
Snort Circuit Protection	.crvii			Against polarity reversal inductive loads														
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)											
Destrotion Down				(-23 +00 C)	(-23 +00 C)	(-23 +00 °C)	(-23 +00 C)											

IP67

2 m

2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²

Nickel-plated brass

LCP

* see page 5 of the Inductive

Sensors Catalog

145g

IP67

Nickel-plated brass

LCP

* see page 5 of the Inductive

Sensors Catalog

IP67

Nickel-plated brass

LCP

* see page 5 of the Inductive

Sensors Catalog

95g

IP67

2 m

2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²

Nickel-plated brass

LCP

* see page 5 of the Inductive

Sensors Catalog

145g

Protection Degree

Cable Length

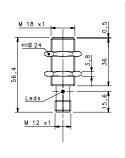
Cable Section Housing Material

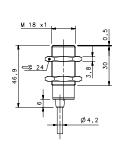
Active face

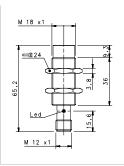
Tightening torque

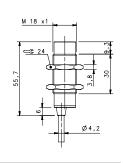
Weight - Cable Output

Weight - Connector Output





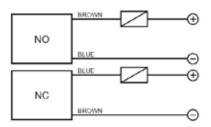




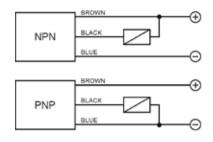
SHORT M12 conn cable M12 conn cable 5 mm 5 mm 8 mm 8 mm IS-18-B1-S2 IS-18-B1-03 IS-18-D1-S2 IS-18-D1-03 95B062151 95B062141 95B062551 95B062541 IS-18-B2-S2 IS-18-B2-03 IS-18-D2-S2 IS-18-D2-03 95B062171 95B062161 95B062571 95B062561 IS-18-B3-S2 IS-18-B3-03 IS-18-D3-S2 IS-18-D3-03 95B062111 95B062101 95B062511 95B062501 IS-18-B4-S2 IS-18-B4-03 IS-18-D4-S2 IS-18-D4-03 95B062121 95B062131 95B062531 95B062521 ------------

10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,8 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm ²		3 x 0,14 mm ²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
	145g		145g
95a		95a	

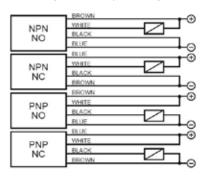
2 wires NO or NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

tion the late	Contacts numbers			
numinable.	1	2	3	4
NO	+		-	
NC	- 12		+	

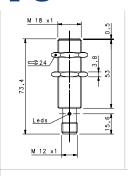
3 wires

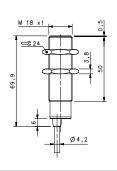
C	ONTACTS	CONFIGU	RATION	
Available	Contacts numbers			
Avarable	1	2	3	4
(NO or NC)	+		-	NO/NO

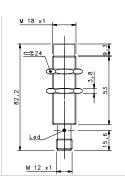
4 wires (PNP/NPN, NO/NC)

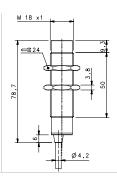
Output		Contacts	numbers	
Output	-1	2	- 3	4
NPN NO	+	NO	-23	-
NPN NC	-	NC	+	-
PNP NO	+	+	-	NO
PNP NC	-	+	+	NO





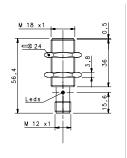


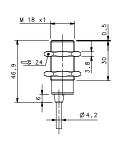


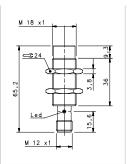


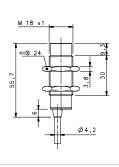
				STANDARD X2				
				FLU		NON FLUSH		
				M12 conn	cable	M12 conn	cable	
OMINAL SWITC	IINAL SWITCHING DISTANCE		8 mm		14 mm			
10-30 Vdc	PNP/NPN	4 wires		IS-18-E0-S2	IS-18-E0-03	IS-18-F0-S2	IS-18-F0-03	
10-30 Vac	NO-NC		order No.	95B067310	95B067270	95B067330	95B067290	
10-30 Vdc	PNP	3 wires		IS-18-E1-S2	IS-18-E1-03	IS-18-F1-S2	IS-18-F1-03	
10-30 Vac	NO NO	3 wires	order No.	95B067050	95B067810	95B067040	95B067880	
10-30 Vdc	PNP NC	3 wires		IS-18-E2-S2	IS-18-E2-03	IS-18-F2-S2	IS-18-F2-03	
10-30 Vac		3 wires	order No.	95B067780	95B067820	95B067850	95B067890	
10-30 Vdc	NPN	3 wires		IS-18-E3-S2	IS-18-E3-03	IS-18-F3-S2	IS-18-F3-03	
10-30 vac	NO	3 WILES	order No.	95B067790	95B067830	95B067860	95B067900	
10-30 Vdc	NPN	3 wires		IS-18-E4-S2	IS-18-E4-03	IS-18-F4-S2	IS-18-F4-03	
10-30 vac	NC		order No.	95B067800	95B067840	95B067870	95B067910	
10-30 Vdc	PNP	4 wires						
10-30 vuc	NO-NC	4 WITES	order No.					
10-30 Vdc	NPN	4 wires						
10-30 vuc	NO-NC	4 WIICS	order No.					
10-30 Vdc	NO-NC	2 wires		IS-18-E9-S2	IS-18-E9-03	IS-18-F9-S2	IS-18-F9-03	
10-30 vac	INU-INC	IO-INC Z WITES	order No.	95B067320	95B067280	95B067340	95B067300	
20-250 Vac/Vdc	NO	Vdc NO	2 wires					
20-230 vac/ vuc	NO	Z WIIES	order No.					
20-250 Vac/Vdc	dc NC	2 wires						
20-230 vac/ vac	IVC	Z WIICS	order No.					
20-250 Vac	NO	2/3 wires						
20 230 vdC	140	2/3 4/11/03	order No.					
10-30 Vdc	Analog 0-20	3 wires						
10 30 440	mA	2 441162	order No.					
NAMUR amplifier	NAMUR	2 wires						
I ADMINISTRATION OF THE PROPERTY OF THE PROPER	IVAMON	2 WII C3	order No.					
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Tommut Follage				10-30 vac (-13/10/0)	10-30 vac (-13/10/0)	10-30 vac (-13/10/0)	10-30 vuc (-13/1070)	

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Min. Output Current				
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	400 Hz	400 Hz	100 Hz	100 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length				
Cable Section		2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²		2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output			145g	145g
Weight - Connector Output	95g	95g		

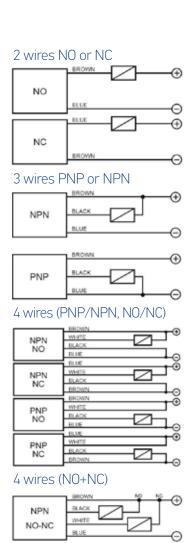








	SHOI	RT X2	
FL			FLUSH
M12 conn	cable	M12 conn	cable
8 mm	8 mm	14 mm	14 mm
IS-18-G1-S2	IS-18-G1-03	IS-18-H1-S2	IS-18-H1-03
95B063531	95B063521	95B063611	95B063601
IS-18-G2-S2	IS-18-G2-03	IS-18-H2-S2	IS-18-H2-03
95B063551	95B063541	95B063631	95B063621
IS-18-G3-S2	IS-18-G3-03	IS-18-H3-S2	IS-18-H3-03
95B063491	95B063061	95B063571	95B063561
IS-18-G4-S2	IS-18-G4-03	IS-18-H4-S2	IS-18-H4-03
95B063511	95B063501	95B063591	95B063581
IS-18-G5-S2	IS-18-G5-03	IS-18-H5-S2	IS-18-H5-03
95B062731	95B062721	95B062811	95B064220
IS-18-G6-S2	IS-18-G6-03	IS-18-H6-S2	IS-18-H6-03
95B062711	95B064200	95B062791	95B064210
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow	Yellow
400 Hz/100 Hz (4 wires NO-NC)	400 Hz/100 Hz (4 wires NO-NC)	400 Hz/100 Hz (4 wires NO-NC)	400 Hz/100 Hz (4 wires NO-NO
< 75 ms	< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +60 °C)	(-25 +70 °C)	(-25 +60 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm ² 4 x 0,25 mm ²		3 x 0,14 mm ² 4 x 0,25 mm ²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
	145g		145g
95g		95g	



PNP WHITE NO-NC BLACK

M12 connector connections

2 wires NO or NC

Available	Contacts numbers				
	1	2	3	- 4	
NO	+		1		
NC	-		+		

3 wires

C	ONTACTS	CONFIGU	RATION		
Available	Contacts numbers				
Available	1	2	3	4	
(NO or NC)	+		-	NO/NC	

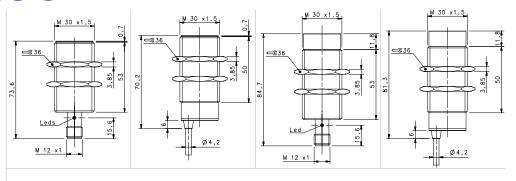
4 wires (PNP/NPN, NO/NC)

		Contacts	numbers	
Output	1	2	-3	4
NPN NO	+	NO	-	-
NPN NC	-	NC.	+	-
PNP NO	+	+	-	NO
PNP NC	:	+	+	NO

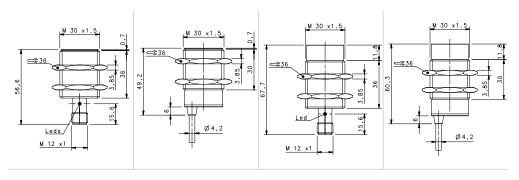
4 wires (NO+NC)

Augiliable		Contacts	numbers	
HURINACIN.	1.5	2	3	4
(NO + NC)	+	NC.	-	NO



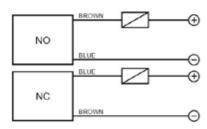


				STANDARD							
				FLU		NON I	FLUSH				
				M12 conn	cable	M12 conn	cable				
IOMINAL SWITCH	HING DISTAN	ICE		10 mm	10 mm	15 mm	15 mm				
	PNP/NPN			IS-30-A0-S2	IS-30-A0-03	IS-30-C0-S2	IS-30-C0-03				
10-30 Vdc	NO-NC	4 wires	order No.	95B064490	95B064460	95B064510	95B064470				
10 20 1/4-	PNP	2		IS-30-A1-S2	IS-30-A1-03	IS-30-C1-S2	IS-30-C1-03				
10-30 Vdc	N0	3 wires	order No.	95B061431	95B061421	95B061831	95B061821				
10-30 Vdc	PNP	3 wires		IS-30-A2-S2	IS-30-A2-03	IS-30-C2-S2	IS-30-C2-03				
10-30 vuc	NC	2 Miles	order No.	95B061451	95B061441	95B061851	95B061841				
10-30 Vdc	NPN	3 wires		IS-30-A3-S2	IS-30-A3-03	IS-30-C3-S2	IS-30-C3-03				
	N0	0 111100	order No.	95B061391	95B061381	95B061791	95B061781				
10-30 Vdc	NPN	3 wires		IS-30-A4-S2	IS-30-A4-03	IS-30-C4-S2	IS-30-C4-03				
	NC		order No.	95B061411	95B061401	95B061811	95B061801				
10-30 Vdc	PNP	4 wires									
	NO-NC		order No.								
10-30 Vdc	NPN NO-NC	4 wires	1 1								
	INU-INC		order No.			 IS-30-C9-S2					
10-30 Vdc	NO-NC	2 wires	andan Na	IS-30-A9-S2	IS-30-A9-03	17 77 77	IS-30-C9-03				
			order No.	95B064570 	95B064530 	95B064590 	95B064550 				
20-250 Vac/Vdc	N0	2 wires	order No.								
			order No.								
20-250 Vac/Vdc	NC	NC	NC	NC	NC	2 wires	order No.				
			order No.								
20-250 Vac	N0	2/3 wires	order No.								
	Analog 0-20	3 wires	order rec.								
10-30 Vdc	mA		order No.								
NAMUR amplifier	NAMUR	2 wires	order No.								
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)				
Residual Ripple				< 10%	< 10%	< 10%	< 10%				
Hysteresis				< 10%	< 10%	< 10%	< 10%				
Max. Output Current				200mA; 100 mA (2wires)							
Min. Output Current				> 1,6 mA (2wires)							
Residual Current				< 1,6 mA	< 1,6 mA	< 1,6 mA	< 1,6 mA				
Voltage Drop				< 1,8V; < 6,5 V (2wires)							
Operation Led				Yellow	Yellow	Yellow	Yellow				
Switching Frequency	у			300 Hz/250 Hz (2 wires NO-NC)	300 Hz/250 Hz (2 wires NO-NC)	300 Hz/250 Hz (2 wires NO-NC)	300 Hz/250 Hz (2 wires NO-N				
Start Up Delay				< 50 ms	< 50 ms	< 50 ms	< 50 ms				
Repeatability				< 3%	< 3%	< 3%	< 3%				
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)				
Electric Protection				Against polarity reversal inductive loads							
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)				
Protection Degree				IP67	IP67	IP67	IP67				
Cable Length					2 m		2 m				
Cable Section					2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²				
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass				
Active face				LCP	LCP	LCP	LCP				
Tightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog				
Weight - Cable Outpu					210 g		210 g				
Weight - Connector 0	Output			170 g		170 g					

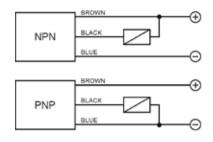


		ORT	
FLU	ISH	NON I	FLUSH
M12 conn	cable	M12 conn	cable
10 mm	10 mm	15 mm	15 mm
IS-30-B1-S2	IS-30-B1-03	IS-30-D1-S2	IS-30-D1-03
95B062231	95B062221	95B062631	95B062621
IS-30-B2-S2	IS-30-B2-03	IS-30-D2-S2	IS-30-D2-03
95B062251	95B062241	95B062651	95B062641
IS-30-B3-S2	IS-30-B3-03	IS-30-D3-S2	IS-30-D3-03
95B062191	95B062181	95B062591	95B062581
IS-30-B4-S2	IS-30-B4-03	IS-30-D4-S2	IS-30-D4-03
95B062211	95B062201	95B062611	95B062601
			70002001
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
Yellow	Yellow	Yellow	Yellow
300 Hz	300 Hz	300 Hz	300 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
(-23 +60 °C)	(-23 +60 °C)	IP67	(-25 +60 °C)
	2 m		2 m
	3 x 0,14 mm ²		3 x 0,14 mm ²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductiv Sensors Catalog
Jensors Catalog	210 g	Jensors Catalog	210 g
170 a	=.09	170 g	2.09

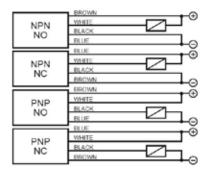
2 wires NO or NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

tion the late	Contacts numbers			
Available	1	2	3	4
NO	+		-	
NC			+	

3 wires

C	ONTACTS	CONFIGU	RATION	
Available		Contacts	numbers	23 V
Available	-1	2	3	4
(NO or NC)	+		-	NO/NO

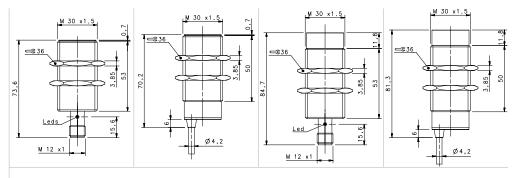
4 wires (PNP/NPN, NO/NC)

Output		Contacts	numbers	
Output	11	2	- 3	4
NPN NO	+	NO	_	-
NPN NC	-	NC	+	-
PNP NO	+	+	1 0 .0	NO
PNP NC	-	+	+	NC

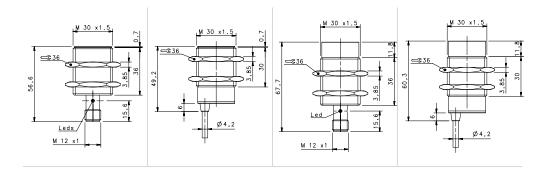
170 g

170 g

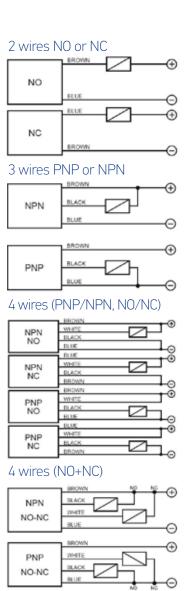




				STANDARD X2														
				FLU		NON-	FLUSH											
				M12 conn	cable	M12 conn	cable											
IOMINAL SWITC	HING DISTAN	ICE		15mm	15mm	20 mm	20 mm											
	PNP/NPN			IS-30-E0-S2	IS-30-E0-03	IS-30-F0-S2	IS-30-F0-03											
10-30 Vdc	NO-NC	4 wires	order No.	95B067390	95B067350	95B067410	95B067370											
	PNP			IS-30-E1-S2	IS-30-E1-03	IS-30-F1-S2	IS-30-F1-03											
10-30 Vdc	NO	3 wires order No.		95B067060	95B067950	95B067990	95B068030											
	PNP	3 wires order No.		IS-30-E2-S2	IS-30-E2-03	IS-30-F2-S2	IS-30-F2-03											
10-30 Vdc	NC			95B067920	95B067960	95B068000	95B068040											
	NPN			IS-30-E3-S2	IS-30-E3-03	IS-30-F3-S2	IS-30-F3-03											
10-30 Vdc	NO	3 wires	order No.	95B067930	95B067970	95B068010	95B068050											
	NPN			IS-30-E4-S2	IS-30-E4-03	IS-30-F4-S2	IS-30-F4-03											
10-30 Vdc	NC	3 wires	order No.	95B067940	95B067980	95B068020	95B068060											
	PNP																	
10-30 Vdc	4 wires		order No.															
	NPN		order rec.															
10-30 Vdc	NO-NC	4 wires	order No.															
			oraci ivo.	IS-30-E9-S2	IS-30-E9-03	IS-30-F9-S2	IS-30-F9-03											
10-30 Vdc	NO-NC	2 wires	order No.	95B067400	95B067360	95B067420	95B067380											
			order ivo.	735007400		735007420	735007300											
20-250 Vac/Vdc	NO	2 wires	order No.															
			order No.															
20-250 Vac/Vdc	50 Vac/Vdc NC 2 wires orde		NC 2	NC	NC	NC	NC	NC	NC	NC	NC	NC	2 wires	order No.				
			order No.															
20-250 Vac	NO	NO 2/3 wires																
			order No.															
10-30 Vdc	Analog 0-20 mA	3 wires	1 1															
	IIIA		order No.															
NAMUR amplifier	NAMUR	2 wires	order No.															
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)											
Residual Ripple				< 10%	< 10%	< 10%	< 10%											
Hysteresis				< 10%	< 10%	< 10%	< 10%											
Max. Output Current			200 4															
				200 mA	200 mA	200 mA	200 mA											
Min. Output Current				200 mA 			200 mA 											
Min. Output Current																		
Min. Output Current Residual Current																		
Min. Output Current Residual Current Voltage Drop				 < 10 mA	 < 10 mA	 < 10 mA	 < 10 mA											
Min. Output Current Residual Current Voltage Drop Operation Led				 < 10 mA < 6,5 V (I=100mA)	< 10 mA < 6,5 V (I=100mA)	< 10 mA < 6,5 V (I=100mA)	<pre> <10 mA <6,5 V (I=100mA) Yellow</pre>											
Min. Output Current Residual Current Voltage Drop Operation Led Switching Frequenc				<pre> <10 mA <6,5 V (I=100mA) Yellow</pre>	< 10 mA < 6,5 V (I=100mA) Yellow	< 10 mA < 6,5 V (I=100mA) Yellow	<pre> <10 mA <6,5 V (I=100mA) Yellow</pre>											
Min. Output Current Residual Current Voltage Drop Operation Led Switching Frequenc Start Up Delay				<pre> < 10 mA < 6,5 V (I=100mA)</pre>	< 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC)	 < 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC)	 < 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-N											
Min. Output Current Residual Current Voltage Drop Operation Led Switching Frequenc Start Up Delay Repeatability	у			 < 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms	< 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms	< 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms	 < 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-N < 75 ms											
Min. Output Current Residual Current Voltage Drop Operation Led Switching Frequenc Start Up Delay Repeatability Short Circuit Protec	у			 < 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3%	 < 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3%	< 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3%	 < 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-N < 75 ms < 3%											
Min. Output Current Residual Current Voltage Drop Operation Led Switching Frequenc Start Up Delay Repeatability Short Circuit Protect	у			< 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads	< 10 mA < 6,5 V (l=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads	< 10 mA < 6,5 V (l=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads	< 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-N < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads											
Min. Output Current Residual Current Voltage Drop Operation Led Switching Frequenc Start Up Delay Repeatability Short Circuit Protec Electric Protection	у			<pre> <10 mA <6.5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) <75 ms <3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C)</pre>	< 10 mA < 6,5 V (l=100mA) Yellow 200 Hz/100 Hz (2 wires N0-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C)	< 10 mA < 6,5 V (l=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C)	< 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-N < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C)											
Min. Output Current Residual Current Voltage Drop Operation Led Switching Frequenc Start Up Delay Repeatability Short Circuit Protect Electric Protection Temperature Limit Protection Degree	у			< 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads	< 10 mA < 6,5 V (l=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads	< 10 mA < 6,5 V (l=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads	< 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-N < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads											
Min. Output Current Residual Current Voltage Drop Operation Led Switching Frequenc Start Up Delay Repeatability Short Circuit Protect Electric Protection Temperature Limit Protection Degree Cable Length	у			<pre> <10 mA <6.5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) <75 ms <3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67</pre>	< 10 mA < 6,5 V (l=100mA) Yellow 200 Hz/100 Hz (2 wires N0-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67	< 10 mA < 6,5 V (l=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67	< 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-N < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67											
Min. Output Current Residual Current Voltage Drop Operation Led Switching Frequenc Start Up Delay Repeatability Short Circuit Protec Electric Protection Temperature Limit Protection Degree Cable Length Cable Section	у			< 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67	< 10 mA < 6,5 V (l=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²	< 10 mA < 6,5 V (l=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67	< 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-N < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²											
Min. Output Current Residual Current Voltage Drop Operation Led Switching Frequenc Start Up Delay Repeatability Short Circuit Protect Electric Protection Temperature Limit Protection Degree Cable Length Cable Section Housing Material	у			<pre> <10 mA <6.5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) <75 ms <3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67</pre>	< 10 mA < 6,5 V (l=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 x 0,34 mm² 3 x 0,14 mm²	< 10 mA < 6,5 V (l=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67	< 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires N0-N < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 x 0,34 mm² 3 x 0,14 mm²											
Min. Output Current Residual Current Voltage Drop Operation Led Switching Frequenc Start Up Delay Repeatability Short Circuit Protection Temperature Limit Protection Degree Cable Length Cable Section Housing Material Active face	у			<pre> <10 mA <6.5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires N0-NC) <75 ms <3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 Nickel-plated brass LCP *see page 5 of the Inductive</pre>	< 10 mA < 6,5 V (l=100mA) Yellow 200 Hz/100 Hz (2 wires N0-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm² Nickel-plated brass LCP * see page 5 of the Inductive	< 10 mA < 6,5 V (l=100mA) Yellow 200 Hz/100 Hz (2 wires N0-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 Nickel-plated brass LCP * see page 5 of the Inductive	< 10 mA < 6,5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires N0-N < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm² Nickel-plated brass LCP * see page 5 of the Inductive											
Min. Output Current Residual Current Voltage Drop Operation Led Switching Frequenc Start Up Delay Repeatability Short Circuit Protect Electric Protection Temperature Limit Protection Degree Cable Length Cable Section Housing Material	y			< 10 mA < 6.5 V (I=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 Nickel-plated brass LCP	< 10 mA < 6,5 V (l=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm² Nickel-plated brass LCP	< 10 mA < 6,5 V (l=100mA) Yellow 200 Hz/100 Hz (2 wires NO-NC) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 Nickel-plated brass LCP	< 10 mA < 6,5 V (l=100mA) Yellow 200 Hz/100 Hz (2 wires NO-N) < 75 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm² Nickel-plated brass											



SHOF	RT X2	
	NON F	LUSH
cable	M12 conn	cable
15mm	20 mm	20 mm
	20111111	
IS_30_G1_03		IS-30-H1-03
		95B063761
IS-30-G2-03	IS-30-H2-S2	IS-30-H2-03
IS-30-G2-S2 IS-30-G2-03 95B063711 95B063701		95B063781
IS-30-G3-03	IS-30-H3-S2	IS-30-H3-03
95B063641	95B063731	95B063721
IS-30-G4-03	IS-30-H4-S2	IS-30-H4-03
95B063661	95B063751	95B063741
IS-30-G5-03	IS-30-H5-S2	IS-30-H5-03
		95B064420
		IS-30-H6-03
95B064400	95B064440	95B064410
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
		< 10%
		< 10%
		200 mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)		< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
200 Hz	200 Hz	200 Hz
< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67
2 m		2 m
3 x 0,14 mm ² 4 x 0,25 mm ²		3 x 0,14 mm ² 4 x 0,25 mm ²
	50 L L L . II	Nickel-plated brass
Nickel-plated brass	Nickel-plated brass	Michel-plated blass
Nickel-plated brass LCP	Nickel-plated brass LCP	LCP
	Cable 15mm IS-30-G1-03 95B063681 IS-30-G2-03 95B063701 IS-30-G3-03 95B063641 IS-30-G4-03 95B063661 IS-30-G5-03 95B063821 IS-30-G6-03 95B064400	cable M12 conn 15mm 20 mm 15-30-G1-03 IS-30-H1-S2 95B063681 95B063771 IS-30-G2-03 IS-30-H2-S2 95B063701 95B063791 IS-30-G3-03 IS-30-H3-S2 95B063641 95B063731 IS-30-G4-03 IS-30-H4-S2 95B06361 95B063751 IS-30-G5-03 IS-30-H5-S2 95B063821 95B064450 IS-30-G6-03 IS-30-H6-S2 95B064400 95B064440



M12 connector connections

2 wires NO or NC

woonser!		Contacts	numbers	
Avaiable	1	2	3	4
NO	+		-	
NC			+	

3 wires

C	ONTACTS	CONFIGU	RATION	
Available	Contacts numbers			
	1	2	3	4
(NO or NC)	+		+	NO/NO

4 wires (PNP/NPN, NO/NC)

Output		Contacts numbers				
Output	1	2	-3	4		
NPN NO	+	NO	37	-		
NPN NC	-	NC.	+	-		
PNP NO	+	+	-	NO		
PNP NC		+	+	NO		

4 wires (NO+NC)

Actorities of	Contacts numbers				
Available	1.5	2	3	4	
(NO+NC)	+	NC.		NO	

Stainless Steel housing
M4, M5 POM active face - M6,5, M8, M12, M18, M30 LCP active face
Standard length
Short length
Normal and double range operating distance
Operating distance 0.8 ... 20 mm
M4, M5, M6,5, M8, M12, M18, M30
Cable, M8 or M12 connector
3 wires
PNP, NPN, NO, NC
IP69K protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

M12/18/30 models are Diversey and ECOLAB tested



*Excluded M4 and M5 models



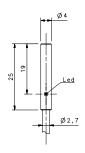
STAINLESS STEEL





STAINLESS STEEL M4

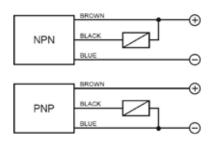




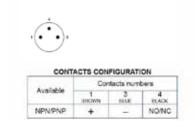
				FLUSH	
				cable	
NOMINAL SWITCH	ING DISTAN	ICE		0,8 mm	
10-30 Vdc	PNP/NPN	4 wires			
10-30 vuc	NO-NC	4 WII es	order No.		
10-30 Vdc	30 Vdc PNP NO	3 wires		IS-04-A1-03	
10-30 VUC		3 WIFES	order No.	95B061011	
10-30 Vdc	PNP NC	3 wires			
10-30 VUC		NC	2 WILES	order No.	
10-30 Vdc	NPN	3 wires		IS-04-A3-03	
10-30 vuc	-30 Vac NO	3 WILES	order No.	95B061001	
10-30 Vdc	NPN NC	3 wires			
10-30 vuc		NC	NC	3 WITES	order No.
10-30 Vdc	20 Vda PNP	4 wires			
10-30 VUC	NO-NC	4 WIFES	order No.		
10-30 Vdc	NPN	4 wires			
10-30 VUC	NO-NC	4 WIFES	order No.		
10-30 Vdc	NO-NC	2 wires			
10-30 vuc	INO-INC		order No.		
20-250 Vac/Vdc	NO	2 wires			
ZU-ZJU VaC/VUC	INU	Z WIIES	order No.		
20-250 Vac/Vdc	NC	2 wires			
ZU-ZJU VaC/VUC	140	2 WIIES	order No.		
20-250 Vac	NO	2/3 wires			
ZU ZJU VAC	140	4 J WIICS	order No.		
10-30 Vdc	Analog 0-20	3 wires			
10-30 vuc	mA	2 WILES	order No.		
NAMUR amplifier	NAMUR	2 wires			
NAMOR ampuner	INAIMOU	Z WIIES	order No.		

Nominal Voltage	10-30 Vdc (-15/10%)		
Residual Ripple	< 10%		
Hysteresis	< 15%		
Max. Output Current	100 mA		
Min. Output Current			
Residual Current	< 0,01 mA		
Voltage Drop	< 1,5 V		
Operation Led	Yellow		
Switching Frequency	2000 Hz		
Start Up Delay			
Repeatability	< 1%		
Short Circuit Protection	Present (self-resetting)		
Electric Protection	Against polarity reversal inductive loads		
Temperature Limit	(-25 +70 °C)		
Protection Degree	IP69K		
Cable Length	2 m (PUR)		
Cable Section	3x 0,15 mm²		
Housing Material	Stainless-Steel		
Active face	POM		
Tightening torque			
Weight - Cable Output	50 g		
Weight - Connector Output			

3 wires PNP or NPN

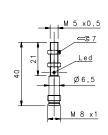


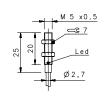
M8 3 pole



STAINLESS STEEL M5





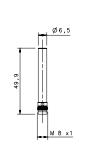


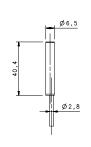


				0 -111		
				STAN	STANDARD X2	
				FLUSH		FLUSH
				M8 conn	cable	cable
OMINAL SWITCH	ING DISTANCE	Ē		0,8 mm	0,8 mm	1,5 mm
0-30 Vdc PNP/NPN		4 wires				
0-30 vuc	NO-NC	4 Wires	order No.			
0-30 Vdc	0 Vdc PNP NO	3 wires		IS-05-A1-S1	IS-05-A1-03	
0 30 vuc		5 WIICS	order No.	95B061051	95B061041	
0-30 Vdc	PNP	3 wires				
	NC		order No.			
0-30 Vdc	NPN	3 wires		IS-05-A3-S1	IS-05-A3-03	IS-05-E3-03
	N0		order No.	95B061031	95B061021	95B065400
0-30 Vdc	NPN	3 wires			IS-05-A4-03	
	NC		order No.		95B065420	
0-30 Vdc	PNP NO-NC	4 wires				
			order No.			
0-30 Vdc	NPN NO-NC	4 wires	order N-			
	140-140		order No.			
0-30 Vdc	NO-NC	2 wires	order No.			
			order No.			
0-250 Vac/Vdc	N0	2 wires	order No.			
			order No.			
0-250 Vac/Vdc	NC	2 wires	order No.			
			order No.			
0-250 Vac	N0	2/3 wires	order No.			
	Analog 0-20		order 140.			
0-30 Vdc	mA	3 wires	order No.			
			0.00.110.			
IAMUR amplifier	NAMUR	2 wires	order No.			
Iominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
esidual Ripple				< 10%	< 10%	< 10%
ysteresis				< 15%	< 15%	< 15%
lax. Output Current				100 mA	100 mA	100 mA
lin. Output Current	t					
esidual Current				< 0,01 mA	< 0,01 mA	< 0,01 mA
oltage Drop				< 1,5V	< 1,5V	< 1,5V
peration Led				Yellow	Yellow	Yellow
witching Frequenc	;y			2000 Hz	2000 Hz	2000 Hz
tart Up Delay						
Repeatability				< 1%	< 1%	
hort Circuit Protec	ction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
lectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
emperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
rotection Degree				IP69K	IP69K	IP69K
able Length					2 m (PUR)	2 m (PUR)
able Section					3x 0,15 mm²	3x 0,15 mm²
lousing Material				Stainless-Steel	Stainless-Steel	Stainless-Steel
ctive face				РОМ	POM	POM
ightening torque				1,5 Nm	1,5 Nm	1,5 Nm
Veight - Cable Outp	ut				25g	25g
Weight - Connector Output				14g		

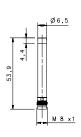
STAINLESS STEEL M6,5

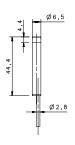






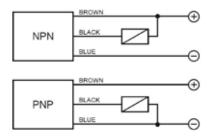
				SHORT STAINLESS STEEL		
				FLUSH		
				M8 conn	cable	
NOMINAL SWITC		NCE		1,5 mm	1,5 mm	
10-30 Vdc	PNP/NPN	4 wires				
	NO-NC		order No.			
10-30 Vdc	30 Vdc PNP	3 wires	1 1	IS-65-M1-S1	IS-65-M1-03	
	NO		order No.	95B066080	95B064760	
10-30 Vdc	PNP NC	3 wires	andan Ma	IS-65-M2-S1	IS-65-M2-03	
		3 wires	order No.	95B066120	95B064800	
10-30 Vdc	NPN NO		order No	IS-65-M3-S1 95B066000	IS-65-M3-03 95B064680	
			order No.	IS-65-M4-S1	IS-65-M4-03	
10-30 Vdc	NPN NC	3 wires	order No.	95B066040	95B064720	
			order No.		730004/20	
10-30 Vdc	PNP NO-NC	4 wires	order No.			
			order No.			
10-30 Vdc	NPN NO-NC	4 wires	order No.			
	140 140		order No.			
10-30 Vdc	NO-NC	2 wires	order No.			
			order No.			
20-250 Vac/Vdc	N0	2 wires	order No.			
			order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
		2/3 wires	order No.			
20-250 Vac N	N0		order No.			
	Analog () 20		order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
			Order 140.			
NAMUR amplifier	NAMUR	2 wires	order No.			
			014011101			
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 10%	< 10%	
Max. Output Curre	nt			200 mA	200 mA	
Min. Output Curre						
Residual Current				< 10 mA	< 10 mA	
Voltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
Operation Led				Yellow	Yellow	
Switching Freque	ncy			1000 Hz	1000 Hz	
Start Up Delay				< 50 ms	< 50 ms	
Repeatability				< 3%	< 3%	
Short Circuit Prot	ection			Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP69K	IP69K	
Cable Length						
Cable Section					3x 0,14 mm ²	
Housing Material				Stainless-Steel	Stainless-Steel	
Active face				LCP	LCP	
Tightening torque						
Weight - Cable Ou					80 g	
Weight - Connecto				40 g		
-						



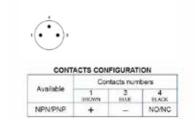


SHORT STAINLESS STEEL					
NON FLUSH					
M8 conn	cable				
2 mm	2 mm				
IS-65-N1-S1	IS-65-N1-03				
95B066240	95B064920				
IS-65-N2-S1	IS-65-N2-03				
95B066280	95B064960				
IS-65-N3-S1	IS-65-N3-03				
95B066160	95B064840				
IS-65-N4-S1 95B066200	IS-65-N4-03 95B064880				
73000200	73004000				
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)				
< 10%	< 10%				
< 10%	< 10%				
200 mA	200 mA				
< 10 mA	< 10 mA				
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)				
Yellow	Yellow				
1000 Hz < 50 ms	1000 Hz				
< 3%	< 50 ms				
Present (self-resetting)	Present (self-resetting)				
Against polarity reversal	Against polarity reversal				
inductive loads	inductive loads				
(-25 +70 °C)	(-25 +70 °C)				
IP69K	IP69K				
	3x 0,14 mm²				
Stainless-Steel	Stainless-Steel				
LCP	LCP				
	80 g				
40 g					

3 wires PNP or NPN

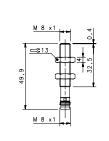


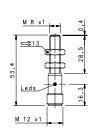
M8 3 pole

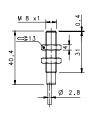


STAINLESS STEEL M8



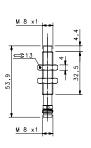


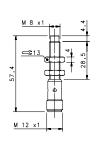


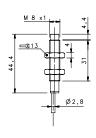


				S	HORT STAINLESS STE	EL
				FLUSH		
				M8 conn	M12 conn	cable
NOMINAL SWITC	HING DISTAN	NCE		1,5 mm	1,5 mm	1,5 mm
10-30 Vdc	PNP/NPN	4 wires				
	NO-NC		order No.			
	PNP			IS-08-M1-S1	IS-08-M1-S2	IS-08-M1-03
	N0	3 wires	order No.	95B066870	95B066600	95B066380
40.001/1	PNP			IS-08-M2-S1	IS-08-M2-S2	IS-08-M2-03
10-30 Vdc	NC	3 wires	order No.	95B066900	95B066630	95B066600
40.001/1	NPN			IS-08-M3-S1	IS-08-M3-S2	IS-08-M3-03
10-30 Vdc	N0	3 wires	order No.	95B066820	95B066540	95B066340
40.001/1	NPN			IS-08-M4-S1	IS-08-M4-S2	IS-08-M4-03
10-30 Vdc	NC	3 wires	order No.	95B066840	95B066570	95B066360
10.001/1	PNP	4 wires				
10-30 Vdc	NO-NC		order No.			
10.001/1	NPN	4 wires				
10-30 Vdc	NO-NC		order No.			
10.2014	NO NO	0				
10-30 Vdc	NO-NC	2 wires	order No.			
00 050 1/ 0//	110	2 wires				
20-250 Vac/Vdc	N0		order No.			
20. 250 V - A/J	NC	2 wires				
20-250 Vac/Vdc	NC		order No.			
20-250 Vac	NO	2/3 wires				
20-250 Vac	NU		order No.			
10-30 Vdc	Analog 0-20	3 wires				
	mA		order No.			
NAMED IS	NAMUR	2 wires				
NAMUR amplifier	NAMUK		order No.			
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%
nesiduul nipple				\ 1U70	\ 1U70	× 1070

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69K	IP69K	IP69K
Cable Length			
Cable Section			3x 0,14 mm ²
Housing Material	Stainless-Steel	Stainless-Steel	Stainless-Steel
Active face	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalo
Weight - Cable Output			80 g
Weight - Connector Output	35g	55g	



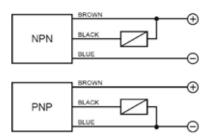




	HORT STAINLESS STE	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
IS-08-N1-S1	IS-08-N1-S2	IS-08-N1-03
95B066980	95B066710	95B066490
IS-08-N2-S1	IS-08-N2-S2	IS-08-N2-03
95B067010	95B066730	95B066510
IS-08-N3-S1	IS-08-N3-S2	IS-08-N3-03
95B066930	95B066660	95B066440
IS-08-N4-S1	IS-08-N4-S2	IS-08-N4-03
95B066950	95B066680	95B066470
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal	Against polarity reversal
inductive loads	inductive loads	inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K	IP69K
		3x 0,14 mm ²
Stainless-Steel	Stainless-Steel	Stainless-Steel
LCP	LCP	LCP
see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalo

55g

3 wires PNP or NPN



M123 pole



C	ONTACTS	CONFIGU	And the American State of the Contract of the	-
Available	1	2	numbers 3	4
(NO or NC)	+		200	NOING

M8 3 pole

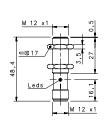


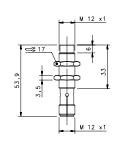
CONT	ACTS CON	FIGURAT	ION
1275 2722-01	Con	tacts nur	bers
Available	1 BROWN	3 HUE	HACK
NPN/PNP	+	=	NO/NO

35g

STAINLESS STEEL M12

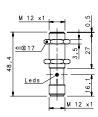


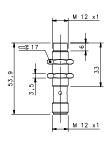




				SHORT STAI	NLESS STEEL	
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCH	IOMINAL SWITCHING DISTANCE			2 mm	4 mm	
10-30 Vdc	PNP/NPN	4 wires				
10-30 Vac	NO-NC	NO-NC '	4 Wires	order No.		
10-30 Vdc	PNP	3 wires		IS-12-M1-S2	IS-12-N1-S2	
10-30 Vuc	NO	3 WII eS	order No.	95B060240	95B060280	
10-30 Vdc	PNP	3 wires		IS-12-M2-S2	IS-12-N2-S2	
10-30 vuc	NC	3 WII es	order No.	95B060250	95B060290	
10-30 Vdc	NPN	3 wires		IS-12-M3-S2	IS-12-N3-S2	
10-30 vac	N0	3 WIIES	order No.	95B060260	95B060300	
10-30 Vdc	NPN	3 wires		IS-12-M4-S2	IS-12-N4-S2	
10-30 VuC	NC		order No.	95B060270	95B060310	
10-30 Vdc	PNP	4 wires				
10-30 vuc	NO-NC	NO-NC	4 WIIES	order No.		
10-30 Vdc	NPN	4 wires				
10-30 vac	NO-NC	4 WII es	order No.			
10-30 Vdc	NO-NC 2 wires	2 wires				
10-30 vuc		Z WII es	order No.			
20-250 Vac/Vdc	NO	2 wires				
20-230 Vac/Vuc	INU	2 WITES	order No.			
20-250 Vac/Vdc	NC	2 wires				
ZU-ZJU VAC/VUC	INC	2 WITES	order No.			
20-250 Vac	NO	2/3 wires				
20-230 Vac	NO	2/3 WILES	order No.			
10-30 Vdc	Analog 0-20	3 wires				
10-30 vac	mA	5 WILES	order No.			
NAMUR amplifier	NAMUR	2 wires				
NAMOR ampulier	NAMOR	z wires	order No.			

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	200 mA	200 mA
Min. Output Current		
Residual Current	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (l=100mA)	< 1,8 V (I=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(−25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69K	IP69K
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Active face	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output		
Weight - Connector Output	60 g	60 g





SHORT STAIN	LESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
4 mm	8 mm
IS-12-01-S2	IS-12-P1-S2
95B060000	95B060040
IS-12-02-S2	IS-12-P2-S2
95B060010	95B060050
IS-12-03-S2 95B060020	IS-12-P3-S2 95B060060
IS-12-04-S2	IS-12-P4-S2
95B060030	958060070
10.001/1 / 15(100/)	10.001/1 / 15/100/
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10% < 10%	< 10% < 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
500 Hz	500 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K
Stainless-Steel	Stainless-Steel
LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
 60 g	 60 g

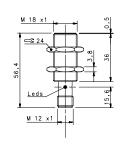
M12 3 pole

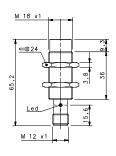


ACCORDANCE OF		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		(223)	NO/NO

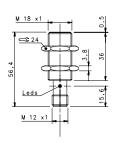
STAINLESS STEEL M30

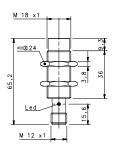






				SHORT STAINLESS STEEL		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
OMINAL SWITCHING DISTANCE				5 mm	8 mm	
0-30 Vdc	PNP/NPN	4 wires				
	NO-NC 4 Wiles order No.		order No.	 IS-18-M1-S2	 IS-18-N1-S2	
0-30 Vdc	NO	3 wires	order No.	95B060320	958060360	
0-30 Vdc	PNP	3 wires		IS-18-M2-S2	IS-18-N2-S2	
0 00 vac	NC	5 WIICS	order No.	95B060330	95B060370	
0-30 Vdc	NPN	3 wires		IS-18-M3-S2	IS-18-N3-S2	
0-30 vuc	N0	2 Miles	order No.	95B060340	95B060380	
0 20 1/4-	NPN	2		IS-18-M4-S2	IS-18-N4-S2	
0-30 Vdc	NC	3 wires	order No.	95B060350	95B060390	
0-30 Vdc	PNP NO-NC	4 wires	order No.			
0.001//	NPN	ļ , .				
0-30 Vdc	NO-NC	4 wires	order No.			
0.30.1/4-	NO NO	2				
0-30 Vdc	NO-NC	2 wires	order No.			
0.050.1/ ***	No					
20-250 Vac/Vdc	N0	2 wires	order No.			
0-250 Vac/Vdc	NC	2 wires				
.0 200 ¥dC/¥dC	140	7 AA11C2	order No.			
0-250 Vac	N0	2/3 wires				
			order No.			
0-30 Vdc	Analog 0-20	3 wires				
	mA		order No.			
NAMUR amplifier	NAMUR	2 wires	anda:: N.			
•			order No.			
Iominal Voltage		1		10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	
lysteresis				< 10%	< 10%	
Max. Output Curre	ent			200 mA	200 mA	
in. Output Curre						
Residual Current				< 10 mA	< 10 mA	
Voltage Drop				< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	
Operation Led				Yellow	Yellow	
Switching Freque	ncy			1000 Hz	1000 Hz	
Start Up Delay				< 50 ms	< 50 ms	
Repeatability				< 3%	< 3%	
Short Circuit Prot	tection			Present (self-resetting)	Present (self-resetting)	
Electric Protection	n			Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limi	t			(-25 +70 °C)	(-25 +70 °C)	
rotection Degree				IP69K	IP69K	
Cable Length						
Cable Section						
lousing Material				Stainless-Steel	Stainless-Steel	
Active face				LCP	LCP	
Tightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	
Weight - Cable Ou						
Weight - Connecto				95g	95g	
					· · · · · · · · · · · · · · · · · · ·	





SHORT STAIN	LESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
8 mm	14 mm
IS-18-01-S2	IS-18-P1-S2
95B060080	95B060120
IS-18-02-S2	IS-18-P2-S2
95B060090	95B060130
IS-18-03-S2 95B060100	IS-18-P3-S2 95B060140
IS-18-04-S2	IS-18-P4-S2
95B060110	95B060150
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
 < 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
200 Hz	200 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K
Stainless-Steel	Stainless-Steel
LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
95g	95g

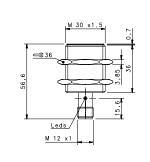
M12 3 pole

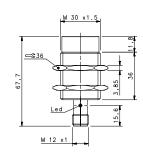


Available	Contacts numbers			
Available	1	2	3	4
(NO or NC)	+		777	NOING

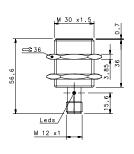
STAINLESS STEEL M30

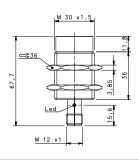






				SHORT STAINLESS STEEL		
				FLUSH	NON FLUSH	
				M12 conn	M12	
OMINAL SWITC	HING DISTAN	ICE		10 mm	15 mm	
10-30 Vdc	PNP/NPN	4 wires				
	NO-NC	4 WIICS	order No.			
0-30 Vdc	Vdc PNP 3 wires			IS-30-M1-S2	IS-30-N1-S2	
	N0	0 111100	order No.	95B060400	95B060440	
0-30 Vdc	PNP	3 wires		IS-30-M2-S2	IS-30-N2-S2	
0 00 740	NC	O WIICS	order No.	95B060410	95B060450	
0-30 Vdc	NPN	3 wires		IS-30-M3-S2	IS-30-N3-S2	
0 00 740	N0	O WIICS	order No.	95B060420	95B060460	
0-30 Vdc	NPN	3 wires		IS-30-M4-S2	IS-30-N4-S2	
0 30 vac	NC	5 WIICS	order No.	95B060430	95B060470	
0-30 Vdc	PNP	4 wires				
5 50 140	NO-NC	7 771103	order No.			
0-30 Vdc	NPN	4 wires				
5 50 140	NO-NC	7 771103	order No.			
0-30 Vdc	NO-NC	2 wires				
0-30 vuc	110-110	Z WIIES	order No.			
20-250 Vac/Vdc	N0	2 wires				
10-230 Vac/ Vac	140	Z WIICS	order No.			
20-250 Vac/Vdc	V/d- NC	Vac/Vdc NC	2 wires			
.u-2Ju vac/ vuc	INC	Z WIIES	order No.			
20-250 Vac	N0	2/3 wires				
:U-230 VaC	-250 Vac NO 2/3 Wires		order No.			
0-30 Vdc	Analog 0-20	3 wires				
U-30 VQC	mA	3 wires	order No.			
NAMED	MUR amplifier NAMUR 2 wires					
чамик атринег			order No.			
				40.0011 (47/000)	40 00 11 (45 (00))	
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	
lysteresis				< 10%	< 10%	
Max. Output Current				200 mA	200 mA	
Ain. Output Current	t					
Residual Current				< 10 mA	< 10 mA	
oltage Drop				< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	
peration Led				Yellow	Yellow	
witching Frequenc	у			300 Hz	300 Hz	
Start Up Delay				< 50 ms	< 50 ms	
Repeatability				< 3%	< 3%	
Short Circuit Protec	ction			Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP69K	IP69K	
Cable Length						
Cable Section						
lousing Material				Stainless-Steel	Stainless-Steel	
Active face				LCP	LCP	
ightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	
Weight - Cable Outp	ut					
Weight - Connector (170 g	170 g	
•	•					





SHORT STAINL	ESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
15 mm	20 mm
IS-30-01-S2	IS-30-P1-S2
95B060160	95B060200
IS-30-02-S2	IS-30-P2-S2
95B060170	95B060210
IS-30-03-S2	IS-30-P3-S2
95B060180	95B060220
IS-30-04-S2	IS-30-P4-S2
95B060190	95B060230
	
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
100 Hz	100 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal
inductive loads	inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K
Stainless-Steel London	Stainless-Steel
LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
 170 g	 170 g
170 y	170 y

M12 3 pole



Available	Contacts numbers			
Available	1	2	3	4
(NO or NC)	+		777	NOING

Stainless Steel housing
Stainless Steel AISI 303 active face
Standard length

2 ... 8 mm

M12, M18

M12 connector

3 wires

PNP, NO

IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,45	0,85	0,4	0,5



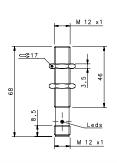
METAL FACE

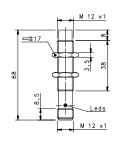




METAL FACE M12

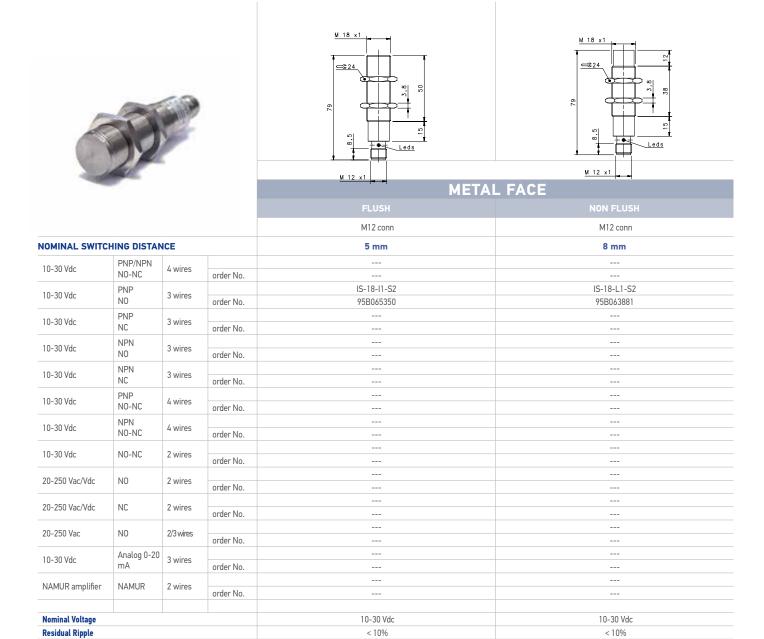






				META	L FACE	
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
OMINAL SWITC	HING DISTAN	ICE		2 mm	4 mm	
10-30 Vdc	PNP/NPN	4 wires				
10-30 Vac	NO-NC	4 wires	order No.			
10-30 Vdc	PNP	3 wires		IS-12-I1-S2	IS-12-L1-S2	
10-30 vuc	N0	3 WIIES	order No.	95B065340	95B063871	
0-30 Vdc	PNP	3 wires				
0 30 vac	NC	3 WIICS	order No.			
0-30 Vdc	NPN	3 wires				
	N0		order No.			
10-30 Vdc	NPN	3 wires				
	NC		order No.			
10-30 Vdc	PNP	4 wires				
	NO-NC		order No.			
10-30 Vdc	NPN NO-NC	4 wires	and an Nie			
	INO-INC		order No.			
10-30 Vdc	NO-NC	2 wires	andan Na			
			order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
			order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
			order No.			
20-250 Vac	NO	2/3 wires	order No.			
	A1 0 20		oruer No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
			oruer ivo.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				10-30 Vdc	10-30 Vdc	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 15%	< 15%	
Max. Output Curren	t			200 mA	200 mA	
Min. Output Curren						
Residual Current				< 0,01 mA	< 0,01 mA	
Voltage Drop				< 1,5 V (I=100mA)	< 1,5 V (I=100mA)	
Operation Led				Present	Present	
Switching Frequen	су			2000 Hz	1000 Hz	
Start Up Delay						
Repeatability				< 1%	< 1%	
Short Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	
Protection Degree			IP67	IP67		
Cable Length						
Cable Section						
Housing Material				Stainless-Steel	Stainless-Steel	
Active face				Stainless Steel AISI 303	Stainless Steel AISI 303	
Tightening torque				10Nm	10Nm	
Weight - Cable Outp	out					
Weight - Connector				30 g	30 g	

METAL FACE M18



Min. Output Current	> 1,6 mA	> 1,6 mA
Residual Current	< 0,01 mA	< 0,01 mA
Voltage Drop	< 1,5 V	< 1,5 V
Operation Led	Present	Present
Switching Frequency	1000 Hz	500 Hz
Start Up Delay		
Repeatability	< 1%	< 1%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Active face	Stainless Steel AISI 303	Stainless Steel AISI 303
Tightening torque	10Nm	10Nm
Weight - Cable Output		
Weight - Connector Output	95g	95g

< 15%

200 mA

Hysteresis

Max. Output Current

< 15%

200 mA

Stainless Steel housing

PTFE active face

Standard length

Operating distance 2 ... 8 mm

M12, M18

M12 connector

3 wires

PNP, NO

IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,45	0,85	0,4	0,5



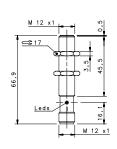
WELD FIELD IMMUNE

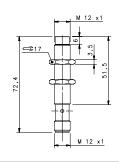




WELD FIELD IMMUNE M12



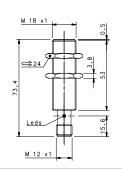


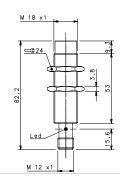


				FIELD IMMUNE STAINLESS STEEL		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITC	HING DISTAN	NCE		2 mm	4 mm	
10-30 Vdc	PNP/NPN	4 wires				
10-30 Vac	NO-NC	4 WII es	order No.			
10-30 Vdc	PNP	3 wires		IS-F12-S1-S2	IS-F12-T1-S2	
10 30 vuc	N0	5 WIICS	order No.	95B065360	95B065370	
10-30 Vdc	PNP	3 wires				
	NC		order No.			
10-30 Vdc	NPN	3 wires				
	N0		order No.			
10-30 Vdc	NPN	3 wires				
	NC		order No.			
10-30 Vdc	PNP	4 wires	1 2			
	NO-NC		order No.			
10-30 Vdc	NPN NO-NC	4 wires	and M			
	NU-NC		order No.			
10-30 Vdc	NO-NC	2 wires	l N			
			order No.			
20-250 Vac/Vdc	N0	2 wires	l N			
			order No.			
20-250 Vac/Vdc	NC	2 wires	1. 1.			
			order No.			
20-250 Vac	NO	2/3 wires	NI			
			order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	I NI .			
	IIIA		order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
			order No.			
Nominal Voltage				10-30 Vdc	10-30 Vdc	
Residual Ripple				<10%	< 10%	
Hysteresis				< 15%	< 15%	
Max. Output Current				200 mA	200 mA	
Min. Output Current				< 10mA	<10mA	
Residual Current				< 0,1 mA	< 0,1 mA	
Voltage Drop				< 1,5V	< 1,5V	
Operation Led				Present	Present	
Switching Frequence	·v			2000 Hz	1000 Hz	
Start Up Delay	,			< 0,1 ms	< 0,1 ms	
Repeatability				< 1%	< 1%	
Short Circuit Protect	tion			Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				(-25 +70 C) IP67	(-25 +70 °C)	
Cable Length				IP67	IP0/	
Cable Section						
Housing Material				Stainless-Steel	Stainless-Steel	
Active face				PTFE	PTFE	
Tightening torque				10 Nm	10 Nm	
Weight - Cable Outp	ut			10 NIII	10 NIII	
Weight - Connector				25g	23g	
rreignt - connector	racput			2Jy	23y	

WELD FIELD IMMUNE M18







				FIELD IMMUNE S		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITC	HING DISTAN	ICE		5 mm	8 mm	
10-30 Vdc	PNP/NPN	4 wires				
10 30 vac	NO-NC	4 WIICS	order No.			
10-30 Vdc	PNP	3 wires		IS-F18-S1-S2	IS-F18-T1-S2	
	N0		order No.	95B065380	95B065390	
10-30 Vdc	PNP NC	3 wires	l NI.			
			order No.			
10-30 Vdc	NPN N0	3 wires	order No.			
	NPN		order No.			
10-30 Vdc	NC	3 wires	order No.			
	PNP		0.00.110.			
10-30 Vdc	NO-NC	4 wires	order No.			
10.001/1	NPN	, .				
10-30 Vdc	NO-NC	4 wires	order No.			
10.20.1/4-	NO NC	2				
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires				
20-230 vac/ vuc	INO	Z WII es	order No.			
20-250 Vac/Vdc	NC	2 wires				
20 200 140, 140	110	2 Wiles	order No.			
20-250 Vac	NO	2/3 wires				
		7	order No.			
10-30 Vdc	Analog 0-20	3 wires				
	mA		order No.			
NAMUR amplifier	NAMUR	2 wires				
•			order No.			
Nominal Voltage				10-30 Vdc	10-30 Vdc	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 15%	< 15%	
Max. Output Current				200 mA	200 mA	
Min. Output Current				< 10mA	< 10mA	
Residual Current				< 0,1 mA	< 0,1 mA	
Voltage Drop				<1,5V	< 1,5V	
Operation Led				Present	Present	
Switching Frequenc	ν			1000 Hz	500 Hz	
Start Up Delay				< 0,2 ms	< 0,5 ms	
Repeatability				< 1%	<1%	
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	
Cable Length						
Cable Section						
Housing Material				Stainless-Steel	Stainless-Steel	
Active face				PTFE	PTFE	
Tightening torque				30 Nm	30 Nm	
Weight - Cable Outpu	ıt					
Weight - Connector Output				94g	91g	

Nickel-plated Brass housing PA 16 active face Standard length Operating distance 2 ... 10 mm M12, M18, M30 cable or M12 connector 20+250 Vac (50,60 Hz) 2 or 3 wires NO IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,30,45	0,61	0,250,45	0,350,5





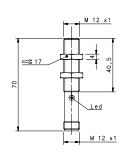
INDUCTIVE AC

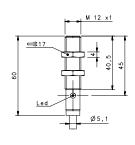




INDUCTIVE AC M12





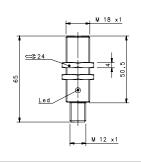


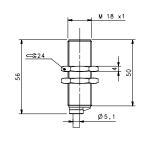
				STANDARD VAC			
				FL	USH		
				M12 conn	cable		
NOMINAL SWITCHING DISTANCE			2 mm	2 mm			
10-30 Vdc	PNP/NPN	4 wires					
10-30 VuC	NO-NC	4 WII es	order No.				
10-30 Vdc	PNP	3 wires					
10 30 vuc	N0	5 WIICS	order No.				
10-30 Vdc	PNP	3 wires					
10 30 vuc	NC	5 WIICS	order No.				
10-30 Vdc	NPN	3 wires					
10 30 vac	N0	5 WIICS	order No.				
10-30 Vdc	NPN	3 wires					
10 30 vuc	NC	3 WII es	order No.				
10-30 Vdc	PNP	4 wires					
10 30 vuc	NO-NC	4 WIICS	order No.				
10-30 Vdc	NPN	4 wires					
10 30 vuc	NO-NC	4 WIICS	order No.				
10-30 Vdc	NO-NC	2 wires					
10 30 vac	140 140	2 WIICS	order No.				
20-250 Vac/Vdc	NO	2 wires					
20 200 vac/ vac	140	2 WIICS	order No.				
20-250 Vac/Vdc	NC	2 wires					
20-230 vac/ vac	INC	2 WII CS	order No.				
20-250 Vac	NO	2/3 wires		IS-12-A15-S2	IS-12-A15-03		
20 200 vac	110	2/3 441163	order No.	95B060690	95B060680		
10-30 Vdc	Analog 0-20	3 wires					
10 30 vac	mA	2 4411.62	order No.				
NAMUR amplifier	NAMUR	2 wires					
MANION ampuller	INMINIOR	Z WIICS	order No.				

Nominal Voltage	20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	500 mA, inrush:1,5A	500 mA, inrush:1,5A
Min. Output Current	20 mA	20 mA
Residual Current	< 0,7 mA	< 0,7 mA
Voltage Drop	< 4 V (I=100mA)	< 4 V (I=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	25 Hz	25 Hz
Start Up Delay	< 300 ms	< 300 ms
Repeatability	5%	5%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67
Cable Length		2 m
Cable Section		2 x 0,25 mm ²
Housing Material	Nickel-plated brass	Nickel-plated brass
Active face	PA 16	PA 16
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output		145g
Weight - Connector Output	95q	

INDUCTIVE AC M18







	-				
				STAND	ARD VAC
				FL	USH
				M12 conn	cable
NOMINAL SWITCHING DISTANCE				5 mm	5 mm
0-30 Vdc	PNP/NPN	4 wires			
	NO-NC	4 111103	order No.		
0-30 Vdc	PNP	3 wires			
	N0		order No.		
0-30 Vdc	PNP	3 wires	N -		
	NC		order No.		
0-30 Vdc	NPN NO	3 wires	andan Na		
			order No.		
0-30 Vdc	NPN NC	3 wires	andan Na		
			order No.		
0-30 Vdc	PNP NO-NC	4 wires	order No.		
			oruer No.		
0-30 Vdc	NPN NO-NC	4 wires	order No.		
	140-140		order No.		
0-30 Vdc	NO-NC	2 wires	order No.		
			order No.		
0-250 Vac/Vdc	NO	2 wires	order No.		
			order No.		
0-250 Vac/Vdc	NC	2 wires	order No.		
			order No.	IS-18-A15-S2	IS-18-A15-03
0-250 Vac	NO	2/3 wires	order No.	95B060780	95B060770
	Analog () 20		order No.	73000700	73500770
0-30 Vdc	Analog 0-20 mA	3 wires	order No.		
	1 11 11 11 11 11 11 11 11 11 11 11 11 1		Order No.		
IAMUR amplifier	NAMUR	2 wires	order No.		
Iominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)
esidual Ripple				< 10%	< 10%
lysteresis				< 10%	< 10%
lax. Output Current				500 mA, inrush:1,5A	500 mA, inrush:1,5A
lin. Output Current	t			20 mA	20 mA
esidual Current				< 0,7 mA	< 0,7 mA
oltage Drop				< 4 V (I=100mA)	< 4 V (l=100mA)
peration Led				Yellow	Yellow
witching Frequenc	у			25 Hz	25 Hz
tart Up Delay				< 300 ms	< 300 ms
Repeatability				5%	5%
hort Circuit Protec	ction			Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads
emperature Limit				(-25 +70 °C)	(-25 +70 °C)
rotection Degree				IP67	IP67
able Length					2 m
able Section					2 x 0,25 mm ²
lousing Material				Nickel-plated brass	Nickel-plated brass
ctive face				PA 16	PA 16
Tightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Waight - Cabla Outn					1/5~

95g

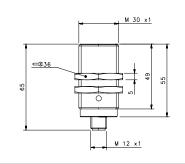
Weight - Cable Output

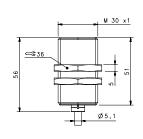
Weight - Connector Output

145g

INDUCTIVE AC M30

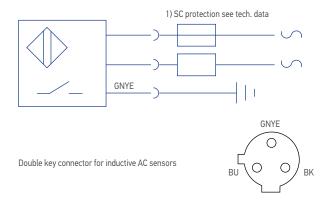






-				STANDARD VAC			
					ush		
				M12 conn	cable		
OMINAL SWITC	HING DISTAN	ICE		10 mm	10 mm		
10-30 Vdc	PNP/NPN	4 wires					
	NO-NC		order No.				
0-30 Vdc	PNP	3 wires					
	N0	0 111100	order No.				
0-30 Vdc	PNP	3 wires					
	NC	0 111100	order No.				
0-30 Vdc	NPN	3 wires					
	N0		order No.				
0-30 Vdc	NPN	3 wires					
	NC		order No.				
0-30 Vdc	PNP	4 wires					
	NO-NC		order No.				
0-30 Vdc	NPN	4 wires					
	NO-NC		order No.				
0-30 Vdc	NO-NC	2 wires					
	110 110	2 111100	order No.				
0-250 Vac/Vdc	NO	2 wires					
200 740, 740	1.10	2 111100	order No.				
0-250 Vac/Vdc	NC	2 wires					
200 740, 740		2 111100	order No.				
0-250 Vac	NO	2/3 wires		IS-30-A15-S2	IS-30-A15-03		
0 200 140	110		order No.	95B060820	95B060810		
0-30 Vdc	Analog 0-20	20 3 wires					
0 30 440	mA		order No.				
IAMUR amplifier	NAMUR	R 2 wires					
in i	IVAPION	2 WIICS	order No.				
Iominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)		
Residual Ripple				< 10%	< 10%		
lysteresis				< 10%	< 10%		
lax. Output Current				500 mA, inrush:1,5A	500 mA, inrush:1,5A		
lin. Output Current				20 mA	20 mA		
esidual Current				< 0,7 mA	< 0,7 mA		
oltage Drop				< 4 V (I=100mA)	< 4 V (I=100mA)		
peration Led				Yellow	Yellow		
witching Frequenc	y			25 Hz	25 Hz		
tart Up Delay				< 300 ms	< 300 ms		
Repeatability				5%	5%		
hort Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)		
lectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads		
emperature Limit				(-25 +70 °C)	(-25 +70 °C)		
rotection Degree				IP67	IP67		
able Length					2 m		
able Section					2 x 0,25 mm ²		
lousing Material				Nickel-plated brass	Nickel-plated brass		
ctive face				PA 16	PA 16		
ightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog		
Veight - Cable Outpu	ut				145g		
Veight - Connector (95g			

Inductive AC



Stainless Steel housing LCP active face Short length Operating distance 0.8 ... 15 mm M5, M8, M12, M30 Cable, M8 or M12 connector 2 wires IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7









NAMUR



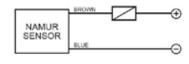




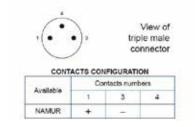


			NAMUR		
			FLUSH		
			cable		
HING DISTAN	ICE		0,8 mm		
PNP/NPN	Luiros				
NO-NC	4 Wires	order No.	***		
PNP	2 wires				
NO	3 wires	order No.			
PNP	2 wires				
NC	3 WILES	order No.			
NPN	3 wires				
N0	2 MILE2	order No.			
NPN	3 wires				
NC	2 MILE2	order No.			
PNP	/ wires				
NO-NC	4 111103	order No.			
NPN	4 wires				
NO-NC		order No.			
NO-NC	2 wires				
	2 1111 00	order No.			
NO	2 wires				
		order No.			
NC	2 wires				
		order No.			
NO	2/3 wires				
		order No.			
	3 wires				
MA		order No.			
NAMUR	2 wires	andan Na	IS-05-A20-03		
		order No.	95B065410		
			6+ 12 V DC		
			0+ 12 V DC		
			< 10%		
			< 3 mA (metal absent)		
			< 1 mA (metal absent)		
<u> </u>					
:v			2000 Hz		
,			< 10 ms		
ction			Present (self-resetting)		
			Against polarity reversal inductive loads		
			(-25 +70 °C)		
			IP67		
			2 m (PVC)		
			2x 0,15 mm ²		
			Stainless-Steel		
			LCP		
			1,5Nm		
ut			25g		
	PNP/NPN NO-NC PNP NO NPN NO NPN NO NPN NC NPN NO-NC NPN NO-NC NO-NC NO NC NO Analog 0-20 mA	NO-NC	NPN/NPN		

2 wires NAMUR

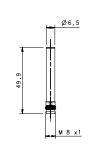


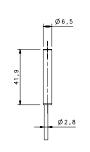
M8 2 wires NAMUR

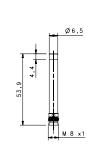


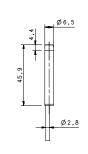
NAMUR M6,5





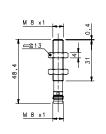


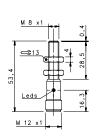


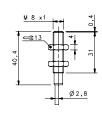


				NAMUR				
				FLU	JSH		FLUSH	
				M8 conn	cable	M8 conn	cable	
OMINAL SWITC	HING DISTAN	ICE		1 mm	1 mm	2 mm	2 mm	
10-30 Vdc	PNP/NPN	4 wires						
10-30 vuc	NO-NC	4 WIICS	order No.					
0-30 Vdc	PNP	3 wires						
0 30 vac	N0	5 WIICS	order No.					
0-30 Vdc	PNP	3 wires						
	NC	0 111100	order No.					
0-30 Vdc	NPN	3 wires						
	N0		order No.					
0-30 Vdc	NPN	3 wires						
	NC		order No.					
0-30 Vdc	PNP	4 wires						
	NO-NC		order No.					
0-30 Vdc	NPN	4 wires						
	NO-NC		order No.					
0-30 Vdc	NO-NC	2 wires	1 1					
			order No.					
0-250 Vac/Vdc	NO	2 wires	1 1					
			order No.					
0-250 Vac/Vdc	NC	2 wires						
			order No.					
0-250 Vac	N0	2/3 wires	1 1					
			order No.					
0-30 Vdc	Analog 0-20 mA	3 wires	1 1					
	IIIA		order No.	 IC /F A00 C1	 IC /F A20 02	 IC /F COO C1	 IC /F C20 02	
IAMUR amplifier	NAMUR	2 wires	andan Na	IS-65-A20-S1	IS-65-A20-03	IS-65-C20-S1	IS-65-C20-03	
			order No.	95B066310	95B066290	95B066320	95B066300	
Iominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	
esidual Ripple				< 10%	< 10%	< 10%	< 10%	
ysteresis				< 10%	< 10%	< 10%	< 10%	
lax. Output Current				< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	
lin. Output Current				< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	
esidual Current								
oltage Drop								
peration Led								
witching Frequenc	у			2000 Hz	2000 Hz	2000 Hz	2000 Hz	
tart Up Delay								
epeatability				< 3%	< 3%	< 3%	< 3%	
hort Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting	
lectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads	
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	
rotection Degree				IP67	IP67	IP67	IP67	
able Length					2 m		2 m	
able Section					2x 0,25 mm ²		2 x 0,25 mm ²	
lousing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
ctive face				LCP	LCP	LCP	LCP	
Veight - Cable Outpo	ut				80 g		80 g	
Veight - Connector (40 g		40 g		

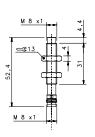


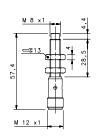


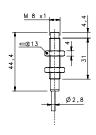




			NAMUR					
				FLUSH				
			M8 conn	M12 conn	cable			
HING DISTAN	NCE		1 mm	1 mm	1 mm			
PNP/NPN	/, wires							
NO-NC	4 WIICS	order No.						
PNP	3 wires							
NO	o wiics	order No.						
PNP	3 wires							
		order No.						
	3 wires							
		order No.						
	3 wires							
		order No.						
	4 wires	1						
		order No.						
	4 wires							
NU-NC		order No.						
NO-NC	2 wires	1 1						
		order No.						
NO	2 wires	INI.						
		order No.						
NC	2 wires	INI.						
		order No.						
NO	2/3 wires	INI.						
		order No.						
	3 wires	1 1						
IIIA		order No.						
NAMUR	2 wires	order No			S-08-A20-03 95B066740			
		order No.	73000700	73000700	73000740			
			7.7 ± 9.V.D.C	7.7 ± 9.V.DC	7,7 + 9 V DC			
					< 10%			
					< 10%			
•					< 3 mA (metal absent)			
					< 1 mA (metal absent)			
•								
cv					2000 Hz			
,								
					< 3%			
ction					Present (self-resetting)			
			Against polarity reversal	Against polarity reversal	Against polarity reversal inductive loads			
			(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)			
Temperature Limit Protection Degree			(-23 +60 °C)	IP67	(-23 +60 °C)			
			11 07					
					7 m			
					2 m			
					2x 0,25 mm ²			
			 Nickel-plated brass	 Nickel-plated brass	2x 0,25 mm² Nickel-plated brass			
			 Nickel-plated brass LCP	 Nickel-plated brass LCP	2x 0,25 mm² Nickel-plated brass LCP			
out			 Nickel-plated brass	 Nickel-plated brass	2x 0,25 mm² Nickel-plated brass			
t t	PNP/NPN NO-NC PNP NC NPN NO NPN NC PNP NC NPN NC NPN NO-NC NO-NC NO-NC NO NC NO NC NO NC NO NAMUR	NO-NC 4 wires PNP NO 3 wires PNP NC 3 wires NPN NO 3 wires NPN NC 3 wires PNP NO-NC 4 wires NPN NO-NC 4 wires NO-NC 2 wires NO 2 wires NO 2/3 wires NO 2/3 wires NAMUR 2 wires	PNP/NPN NO-NC 4 wires order No. PNP NO 3 wires order No. PNP NC 3 wires order No. NPN NO 3 wires order No. NPN NC 3 wires order No. PNP NO-NC 4 wires order No. NPN NO-NC 4 wires order No. NO-NC 2 wires order No. NC 2 wires order No. NC 2 wires order No. NO 2/3 wires order No. NAMUR 2 wires order No. NAMUR 2 wires order No.	HING DISTANCE	MB conn			

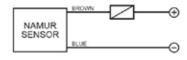






	NAMUR	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
IS-08-C20-S1	IS-08-C20-S2	IS-08-C20-03
95B066790	95B066770	95B066750
7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)
< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)
2000 Hz	2000 Hz	2000 Hz
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal	Against polarity reversal
inductive loads	inductive loads	inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	IP67	IP67
		2 m
		2 x 0,25 mm ²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP
see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
		80 g

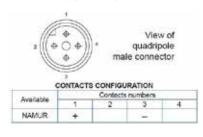
2 wires NAMUR



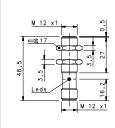
M8 2 wires NAMUR

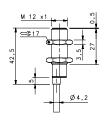


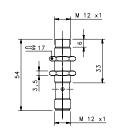
M12 2 wires NAMUR

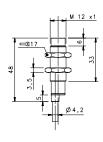






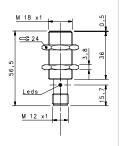


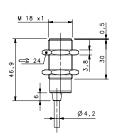


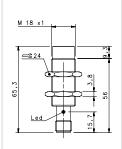


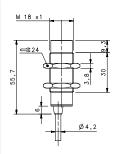
				NAMUR								
				FLU		NON F	LUSH					
				M12 conn	cable	M12 conn	cable					
OMINAL SWITCH	HING DISTAN	ICE		2 mm	2 mm	4mm	4mm					
10-30 Vdc	PNP/NPN	4 wires										
10-30 Vac	NO-NC	4 WIFeS	order No.									
10-30 Vdc	PNP	3 wires										
10-30 Vac	N0	3 WILES	order No.									
10-30 Vdc	PNP	3 wires										
10-30 vuc	NC	3 WILES	order No.									
I 0-30 Vdc	NPN	3 wires										
10-30 vuc	N0	3 WII es	order No.									
I 0-30 Vdc	NPN	3 wires										
10-30 vuc	NC	3 WII es	order No.									
I 0-30 Vdc	PNP	4 wires										
10 JU VUC	NO-NC	- WILES	order No.									
0-30 Vdc	NPN	4 wires										
10 JU VUC	NO-NC	- WILES	order No.									
0-30 Vdc	NO-NC	2 wires										
10-30 vuc	INO-INC	Z WIIES	order No.									
20-250 Vac/Vdc	NO	2 wires										
.u-230 vac/ vuc	NO	Z WIIES	order No.									
0-250 Vac/Vdc	NC	NC	NC	NC	NC	NC	2 wires					
.0-230 vac/ vac					2 WII CS	order No.						
20-250 Vac	NO	2/3 wires										
.0-230 vac	140		order No.									
0-30 Vdc	Analog 0-20	3 wires										
0-30 vac	mA	3 WII CS	order No.									
NAMUR amplifier	NAMUR	2 wires		IS-12-A20-S2	IS-12-A20-03	IS-12-C20-S2	IS-12-C20-03					
ANOR ampuner	IVAPION	2 WIICS	order No.	95B064180	95B064160	95B064190	95B064170					
Iominal Voltage				7,7 + 9 V DC								
Residual Ripple				< 10%	< 10%	< 10%	< 10%					
lysteresis				< 10%	< 10%	< 10%	< 10%					
Aax. Output Current				< 3 mA (metal absent)								
Ain. Output Current				< 1 mA (metal present)								
Residual Current												
oltage Drop												
peration Led												
Switching Frequenc	у			2000 Hz	2000 Hz	2000 Hz	2000 Hz					
Start Up Delay												
Repeatability				< 3%	< 3%	< 3%	< 3%					
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)					
Electric Protection				Against polarity reversal inductive loads								
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)					
Protection Degree				IP67	IP67	IP67	IP67					
able Length					2 m		2 m					
Cable Section					2 x 0,25 mm^2		2 x 0,25 mm^2					
lousing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass					
Active face				LCP	LCP	LCP	LCP					
Tightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog					
Weight - Cable Outpu					110 g		110 g					
Weight - Connector (Output			60 g		60 g						





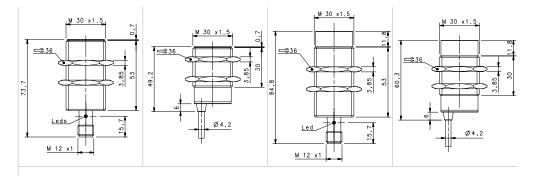






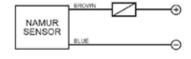
				NAMUR				
				FL		NON I	FLUSH	
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCH	HING DISTAN	ICE		5mm	5mm	8mm	8mm	
10-30 Vdc	PNP/NPN	4 wires						
10-30 vuc	NO-NC	4 WIICS	order No.					
10-30 Vdc	PNP	3 wires						
10-30 vuc	N0	3 WII es	order No.					
10-30 Vdc	PNP	3 wires						
10 00 140	NC	0 111103	order No.					
10-30 Vdc	NPN	3 wires						
	N0	0 111100	order No.					
10-30 Vdc	NPN	3 wires						
	NC	0 111100	order No.					
10-30 Vdc	PNP	4 wires						
	NO-NC		order No.					
10-30 Vdc	NPN	4 wires						
	NO-NC	7 111103	order No.					
10-30 Vdc	NO-NC	2 wires						
10 30 vuc	140 140	2 WIICS	order No.					
20-250 Vac/Vdc	NO	2 wires						
20-230 Vac/ Vac	140	Z WIICS	order No.					
20-250 Vac/Vdc	NC	de NC	2 wires					
20 230 ¥dc/ ¥dc	140	2 WIICS	order No.					
20-250 Vac	NO	2/3 wires						
20 200 vac	140	2/3 VVIICS	order No.					
10-30 Vdc	Analog 0-20	3 wires						
10-30 vuc	mA	3 WII C3	order No.					
NAMUR amplifier	NAMUR	2 wires		IS-18-A20-S2	IS-18-A20-03	IS-18-C20-S2	IS-18-C20-03	
NAMON ampulier	IVAMOR	Z WIICS	order No.	95B064380	95B064360	95B064390	95B064370	
Nominal Voltage				7,7 + 9 V DC				
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
Hysteresis				< 10%	< 10%	< 10%	< 10%	
Max. Output Current				< 3 mA (metal absent)				
Min. Output Current				< 1 mA (metal present)				
Residual Current								
Voltage Drop								
Operation Led								
Switching Frequenc	у			1000 Hz	1000 Hz	1000 Hz	1000 Hz	
Start Up Delay								
Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads				
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	
Protection Degree				IP67	IP67	IP67	IP67	
Cable Length					2 m		2 m	
Cable Section					2 x 0,25 mm ²		2 x 0,25 mm ²	
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Active face				LCP	LCP	LCP	LCP	
Tightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	
Weight - Cable Outpu	ıt				145g		145g	
Weight - Connector Output				95g		95g		



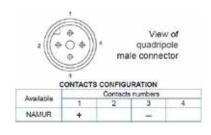


				NAMUR				
				FLUSH			NON FLUSH	
				M12 conn	cable	M12 conn	cable	
OMINAL SWITC	HING DISTAN	ICE		10mm	10mm	15mm	15mm	
10.001/1	PNP/NPN	, .						
0-30 Vdc	NO-NC	4 wires	order No.					
0.001/1	PNP							
0-30 Vdc	N0	3 wires	order No.					
0.30.1/4=	PNP	2						
0-30 Vdc	NC	3 wires	order No.					
0-30 Vdc	NPN	3 wires						
0-30 vuc	N0	3 WILES	order No.					
0-30 Vdc	NPN	3 wires						
0-30 vuc	NC	2 MILES	order No.					
0-30 Vdc	PNP	4 wires						
0-30 vuc	NO-NC	4 WII CS	order No.					
0-30 Vdc	NPN	4 wires						
5 50 140	NO-NC	7 111103	order No.					
0-30 Vdc	NO-NC	2 wires						
0 00 740	110 110	2 WIICS	order No.					
0-250 Vac/Vdc	NO	2 wires						
.0 200 146, 146	110	2 WIICS	order No.					
20-250 Vac/Vdc	NC	2 wires						
			order No.					
0-250 Vac	NO	2/3 wires						
			order No.					
0-30 Vdc	Analog 0-20	3 wires						
	mA		order No.					
NAMUR amplifier	NAMUR	2 wires		IS-30-A20-S2	IS-30-A20-03	IS-30-C20-S2	IS-30-C20-03	
· · · · · · · · · · · · · · · · · · ·			order No.	95B064630	95B064610	95B064640	95B064620	
laminal Valence				77.0700	77.0400	77.0000	77.0700	
Iominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC < 10%	7,7 + 9 V DC	7,7 + 9 V DC	
esidual Ripple				< 10% < 10%	< 10%	< 10% < 10%	< 10% < 10%	
ysteresis Inv. Outnut Cumant				< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	
lax. Output Current lin. Output Current				< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	
ann. Gutput Current Residual Current						< TitliA (metat present)		
oltage Drop								
peration Led								
witching Frequenc	v			500 Hz	500 Hz	500 Hz	500 Hz	
Start Up Delay	,							
Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
lectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	
rotection Degree				IP67	IP67	IP67	IP67	
able Length					2 m		2 m	
able Section					2 x 0,25 mm ²		2 x 0,25 mm ²	
lousing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
ctive face				LCP	LCP	LCP	LCP	
ightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Induction Sensors Catalog	
Veight - Cable Outp	ut			Sensors Catalog	210 g	Sensors Catalog	210 g	
-	Output			170 g		170 g		

2 wires NAMUR



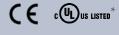
M12 2 wires NAMUR



PBT (resin) or Nickel-plated Brass housing Operating distance 1.5 ... 15 mm 40x40 mm or 8x8 mm dimension Cable, M8 connector or Terminal Block 2 or 3 wires PNP, PNP/NPN, NO, NC, NO/NC IP67

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,45	0,85	0,4	0,5



*IS-88 models only

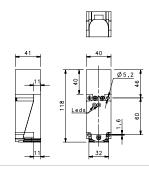
SQUARE



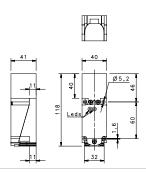


SQUARE 40X40





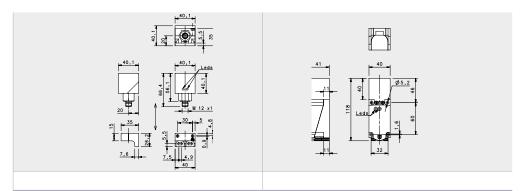
				40X40			
				FLUSH	NON FLUSH		
				Terminal Block	Terminal Block		
NOMINAL SWITC	HING DISTAN	NCE		15 mm	30mm		
10-30 Vdc	PNP/NPN	4 wires					
10-30 vuc	NO-NC	4 WII es	order No.				
10-30 Vdc	PNP	3 wires					
10-30 vac	N0	3 WII CS	order No.				
10-30 Vdc	PNP	3 wires					
	NC	o wiics	order No.				
0-30 Vdc	NPN	3 wires					
	N0	o wiics	order No.				
0-30 Vdc	NPN	3 wires					
	NC	o wiics	order No.				
10-30 Vdc	PNP	4 wires		IS-40-W5-S3	IS-40-Y5-S3		
	NO-NC	4 Wiles	order No.	95B065240	95B065280		
0-30 Vdc	NPN	4 wires		IS-40-W6-S3	IS-40-Y6-S3		
	NO-NC	4 Wiles	order No.	95B065230	95B065270		
0-30 Vdc	NO-NC	2 wires					
	110 110	2 Wiles	order No.				
20-250 Vac/Vdc	NO	2 wires					
.0 200 146, 146	110	2 Wiles	order No.				
0-250 Vac/Vdc	NC	2 wires					
.0 200 140, 140	110	Z WIICS	order No.				
0-250 Vac	NO	2/3 wires					
.0 200 740	110	2/3 991163	order No.				
0-30 Vdc	Analog 0-20	3 wires					
	mA	o wiics	order No.				
NAMUR amplifier	NAMUR	2 wires					
	10 11 1011	2 111100	order No.				
Iominal Voltage				10-30 Vdc	10-30 Vdc		
Residual Ripple				< 10%	< 10%		
lysteresis				< 15% (Sr)	< 15% (Sr)		
lax. Output Current				200mA	200mA		
lin. Output Current	t						
Residual Current				< 0,01 mA	< 0,01 mA		
oltage Drop				< 1,5V	< 1,5V		
peration Led				YES	YES		
witching Frequenc	:y			100 Hz	100 Hz		
start Up Delay							
Repeatability				< 1.0% (Sr)	< 1.0% (Sr)		
hort Circuit Protec	ction			Present (self-resetting)	Present (self-resetting)		
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads		
Temperature Limit			(-25+75C)	(-25 +75 °C)			
Protection Degree				IP67	IP67		
Cable Length							
Cable Section							
Housing Material				PBT (RESIN)	PBT (RESIN)		
Neight - Cable Outp	ut			FDI (\(\text{\ti}\text{\texi}\text{\tex{\text{\texi}\text{\text{\text{\text{\text{\texi}\tint{\text{\tin}\tint{\ti}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	FDI (RESIN)		
Weight - Connector (262g	262g		
g Johnson	pa-			2329	2029		



40X40 VAC/VDC							
FLUSH	NON FLUSH						
Terminal Block	Terminal Block						
15 mm	30mm						
IS-40-W7-S3	IS-40-Y7-S3						
95B065250	95B065290						
IS-40-W8-S3	IS-40-Y8-S3						
95B065260	95B065300						
20-250 VAC/Vdc, 50-60 Hz	20-250 VAC/Vdc, 50-60 Hz						
< 10%	< 10%						
< 15% (Sr)	< 15% (Sr)						
200mA	200mA						
< 2,5mA	< 2,5mA						
< 10Vac ; < 8Vdc	< 10Vac ; < 8Vdc						
YES	YES						
25 Hz AC; 40 Hz DC	25 Hz AC; 40 Hz DC						
. 1 00/ (0-)							
< 1.0% (Sr)	< 1.0% (Sr)						
Present (self-resetting)	Present (self-resetting)						
Against polarity reversal inductive loads	Against polarity reversal inductive loads						
(-25 +70 °C)	(-25 +70 °C)						
IP67	IP67						
PBT (RESIN)	PBT (RESIN)						
262g	262g						

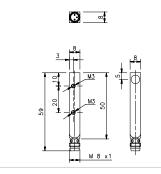
SQUARE 40X40

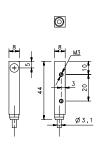




			SHORT	ANALOG OUTPUT		
				FLUSH	NON FLUSH	
				M12 conn.	Terminal Block	
NOMINAL SWITCH	HING DISTAN	ICE		15mm	7-20mm	
10-30 Vdc	PNP/NPN	4 wires				
	NO-NC		order No.			
10-30 Vdc	PNP NO	3 wires	order No.			
	PNP		order No.			
10-30 Vdc	NC	3 wires	order No.			
	NPN		014011101			
10-30 Vdc	NO NO	3 wires	order No.			
10.003//	NPN					
10-30 Vdc	NC	3 wires	order No.			
10-30 Vdc	PNP	4 wires		IS-40-X5-S2		
10-30 Vac	NO-NC	4 wires	order No.	95B065320		
10-30 Vdc	NPN	4 wires		IS-40-X6-S2		
10 30 vuc	NO-NC	4 WIICS	order No.	95B065310		
10-30 Vdc	NO-NC	2 wires				
		2 111100	order No.			
20-250 Vac/Vdc	NO	2 wires				
			order No.			
20-250 Vac/Vdc	NC	NC	2 wires	1 1		
			order No.			
20-250 Vac	N0	2/3 wires	andan Na			
	Al 0. 20		order No.		IS-40-C11-S3	
10-30 Vdc	Analog 0-20 mA	3 wires	order No.		95B065330	
			order ivo.		735003330	
NAMUR amplifier	NAMUR	2 wires	order No.			
			014011101			
Nominal Voltage				10-30 Vdc	18-30 Vdc	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 15% (Sr)	< 10% (Sr)	
Max. Output Current				200mA	0-20mA/200 Ω Max.	
Min. Output Current						
Residual Current				< 0,01mA		
Voltage Drop				< 1,5V		
Operation Led				YES		
Switching Frequency	у			100 Hz	100 Hz	
Start Up Delay						
Repeatability				< 1.0% (Sr)	0,02 mm	
Short Circuit Protection			Present (self-resetting)	Present (self-resetting)		
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	
Cable Length						
Cable Section						
Housing Material				PBT (RESIN)	PBT (RESIN)	
Weight - Cable Outpu						
Weight - Connector C	Output			170 g	242g	







				M8 conn	cable		
NOMINAL SWITCHING DISTANCE				1,5mm	1,5mm		
10-30 Vdc PNP/NPN 4 wires		c 4 Wires		II Vdc 4 wires			
			order No.				
0-30 Vdc	PNP	3 wires		IS-88-Q1-S1	IS-88-Q1-03		
0 00 140	N0	O WIICS	order No.	95B060840	95B060830		
0-30 Vdc	PNP	3 wires					
5 00 vac	NC	O WIICS	order No.				
0-30 Vdc	NPN	3 wires					
0-30 vuc	N0	2 MILE2	order No.				
0-30 Vdc	NPN	3 wires					
0-30 vuc	NC	3 WIIES	order No.				
0-30 Vdc	PNP	4 wires					
U-30 Vac	NO-NC	4 Wires	order No.				
0.001/4	NPN						
0-30 Vdc	NO-NC	4 wires	order No.				
0.20374	NO NO	2					
0-30 Vdc	NO-NC	2 wires	order No.				
0.05011 011	1						
0-250 Vac/Vdc	N0	2 wires	order No.				
0-250 Vac/Vdc	NC	2 wires	order No.				
			0.000				
0-250 Vac	N0	2/3 wires	order No.				
	Analog 0-20		order rec.				
0-30 Vdc	mA	3 wires	order No.				
	IIIA		order ivo.				
NAMUR amplifier	NAMUR	2 wires	order No.				
			order 140.				
Iominal Voltage				10-30 Vdc	10-30 Vdc		
esidual Ripple				< 10%	< 10%		
ysteresis				< 10% < 10% (Sr)	< 10% (Sr)		
				200mA	200mA		
lax. Output Current lin. Output Current				200TIA	ZUUTTA		
lesidual Current				< 1,2V	<1,2V		
oltage Drop				•	·		
peration Led				Yellow	Yellow		
witching Frequenc	у			500 Hz	500 Hz		
Start Up Delay				75 ms	75 ms		
epeatability				< 3%	< 3%		
hort Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)		
lectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads		
emperature Limit				(-25 +70 °C)	(-25 +70 °C)		
rotection Degree				IP67	IP67		
able Length					2 m		
able Section					3x0,14mm²		
lousing Material				nickel-plated brass	nickel-plated brass		
Veight - Cable Outp	ut				80 g		
Weight - Connector				40 g			

Capacitive sensors are noncontact proximity devices suitable for detecting metals, nonmetals, solids, and liquids. The oscillating circuit is influenced by variations in capacity. When any material comes close to the active face, the capacity of the sensor varies and, if the threshold distance is passed, the sensor switches the state of its outputs. Like for the inductive sensors, the operating distance is calculated using a square piece of Fe37, with 1 mm thickness. The variation of the capacitance is due to the conductivity or non-conductivity of the different materials. Conductive materials change the capacitance of the sensor, while non-conductive materials change the dielectric constant of the reference capacitor; the sensor feel the variation of the generated electric field by its active sensing face.

Datalogic offers a basic range for the Capacitive sensors, M18 and M30 tubular housing, in Direct or Alternated Current, in nickel-plated brass or plastic housing, with timer and sensitivity adjustment trimmer, equipped with the industrial standard outputs, suitable for the most common applications of detection and in the filling level control of the materials.

Nickel plated brass M18, M30 Basic series (NO-NC) Capacitive A.C. series (plastic housing) Multi-voltage series (SPDT relay) Operating distance: 5...25 mm Cable or M8 connector 2,4,6 wires PNP or NPN, N.O. and N.C. outputs, SPDT relay Delay ON or delay OFF model IP67 protection

MATERIALS	REDUCTION FACTOR
Metal (Fe37)	1xSn
Water	1xSn
P.V.C.	0.5xSn
Glass	0.5xSn
Wood	0.4xSn





CAPACITIVE

BASIC, CAPACITIVE A.C., MULTIVOLTAGE



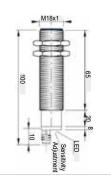


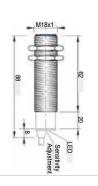


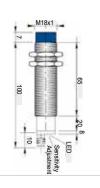


CAPACITIVE BASIC M18









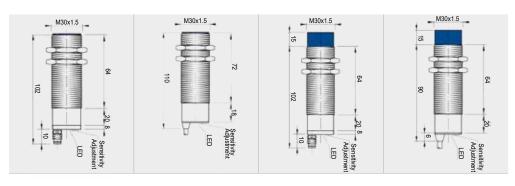


					STAN	IDARD		
				FLU		NON FLUSH		
				M8 conn	cable	M8 conn	cable	
OMINAL SWITC	HING DISTAN	ICE		15 mm	15 mm	110 mm	110 mm	
10.20374	PNP/NPN							
10-30 Vdc	NO-NC	4 wires	order No.					
0-30 Vdc	PNP N0	3 wires	l NI .					
			order No.					
10-30 Vdc	PNP	3 wires	1 11					
	NC		order No.					
10-30 Vdc	NPN	3 wires						
	N0		order No.					
0-30 Vdc	NPN	3 wires						
	NC		order No.					
0-30 Vdc	PNP	4 wires		CS08K2	CS08	CS14K2	CS14	
0 00 140	NO-NC	4 WIICS	order No.	958901040	958901020	958901270	958901120	
0-30 Vdc	NPN	4 wires		CS07K2	CS07	CS13K2	CS13	
0-30 vac	NO-NC	4 WIICS	order No.	958901000	958901160	958901250	958901100	
0-30 Vdc	NO-NC	2 wires						
0-30 vuc	INO-INC	Z WIIES	order No.					
20-250 Vac/Vdc	NO	2						
:U-250 Vac/Vac	NU	2 wires	order No.					
20-250 Vac/Vdc	NC	2 wires						
:u-zou vac/vac	INC	2 wires	order No.					
.0-250 Vac	NO	2/2						
.U-Z5U VGC	N0	2/3 wires	order No.					
0.2014	Analog 0-20	2						
0-30 Vdc	mA	3 wires	order No.					
14141D 1:6	NAMED							
NAMUR amplifier	NAMUR	2 wires	order No.					
Nominal Voltage				12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	
Posidual Pinnlo				12-30Vdc(-13/10/0)	-1004 -1004	12-30 vac(-13/10/0)	/10%	

Nominal Voltage	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)
Residual Ripple	<10%	<10%	<10%	<10%
Hysteresis	depends on the sensing distance			
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100 m A)			
Setting	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	10 Hz	10 Hz	10 Hz	10 Hz
Start Up Delay	< 100 ms	< 100 ms	< 100 ms	< 100 ms
Repeatability	≤ 5%	≤ 5%	≤ 5%	≤ 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)
Electric Protections	Against polarity	Against polarity	Against polarity	Against polarity
Electric Protections	reversal inductive loads	reversal inductive loads	reversal inductive loads	reversal inductive loads
Temperature Limits	- 25 +70 C			
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		4x 0,25 mm^2		4x 0,25 mm^2
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output		160 g		160 g
Weight - Connector Output	120 g		120 g	

CAPACITIVE BASIC M30





					STAN	DARD		
				FLI		NON FLUSH		
				M8 conn	cable	M8 conn	cable	
IOMINAL SWITCI	HING DISTAN	ICE		115 mm	115 mm	125 mm	125 mm	
10-30 Vdc	PNP/NPN	/ina a						
10-30 Vac	NO-NC	4 wires	order No.					
10-30 Vdc	PNP	2 miros						
10-30 Vac	N0	3 wires	order No.					
10-30 Vdc	PNP	3 wires						
10-30 VuC	NC	3 WILES	order No.					
10-30 Vdc	NPN	3 wires						
10-30 vac	N0	3 WITES	order No.					
10-30 Vdc	NPN	3 wires						
10-30 Vac	NC	3 WILES	order No.					
10 20 Vda	PNP	Luiros		CS10K2	CS10	CS16K2	CS16	
10-30 Vdc	NO-NC	4 wires	order No.	958901080	958901060	958901330	958901140	
10-30 Vdc	NPN	Luiros		CS09K2	CS09	CS15K2	CS15	
10-30 VuC	NO-NC	4 wires	order No.	958901230	958901180	958901300	958901200	
10-30 Vdc	NO-NC	2 wires						
10-30 vac	INU-INC	2 WITES	order No.					
20. 250 \/ \//-	NO	2						
20-250 Vac/Vdc	N0	2 wires	order No.					
20-250 Vac/Vdc	NC	2						
20-250 Vac/Vac	NC	2 wires	order No.					
20. 250 Vac	NO	2/2						
20-250 Vac	NO 2/3 wire	2/3 wires	order No.					
10 20 1/4-	Analog 0-20 3 wir	3 wires						
10-30 Vdc	mA	3 wires	order No.					
NIAMI ID amanlifan	NAMUR	2 wires						
NAMUR amplifier	NAMUR	2 WITES	order No.					
Naminal Valence				12 201/4-/ 15/100/)	12 201/4-/ 15/100/	12 201/4-/ 15/100/)	12 201/4-/ 15/101/)	
Nominal Voltage				12-30Vdc(-15/10%) <10%	12-30Vdc(-15/10%) <10%	12-30Vdc(-15/10%) <10%	12-30Vdc(-15/10%) <10%	
Residual Ripple Hysteresis				depends on the sensing distance				
Max. Output Current				200 mA	200 mA	200 mA	200 mA	
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA	
Voltage Drop				< 1,8 V (I=100 m A)				
Setting				sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimme	
Operation Led				Yellow	Yellow	Yellow	Yellow	
Switching Frequenc	v			10 Hz	10 Hz	10 Hz	10 Hz	
Start Up Delay	,			< 100 ms	< 100 ms	< 100 ms	< 100 ms	
Repeatability				< 100 ms ≤ 5%	< 100 ms ≤ 5%	< 100 ms ≤ 5%	< 100 His ≤ 5%	
Repeatablity Short Circuit Protec	tion			Present(self-resetting)	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)	
onor on care i folec				Against polarity	Against polarity	Against polarity	Against polarity	
Electric Protections				reversal inductive loads	reversal inductive loads	reversal inductive loads	reversal inductive loads	
Temperature Limits				- 25 +70 C				
Protection Degree				- 25 +70 C	- 25 +70 C IP67	- 25 +70 C IP67	IP67	
Cable Length				IF0/	2 m		2 m	
Cable Section					4x 0,25 mm^2		4x 0,25 mm^2	
Housing Material					Nickel-plated brass		Nickel-plated brass	
nousing material Weight - Cable Outpu	ıt			Nickel-plated brass	250 g	Nickel-plated brass	250 g	
Weight - Connector (210 a	230 y	210 a	230 g	

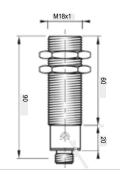
210 g

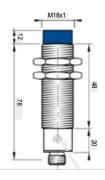
Weight - Connector Output

210 g

CAPACITIVE A.C. M18



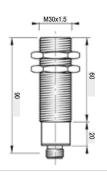


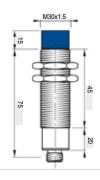


				STANDARD			
				FLUSH	NON FLUSH		
				M12 conn	M12 conn		
NOMINAL SWITC	HING DISTAN	ICE		28 mm	215 mm		
10-30 Vdc	PNP/NPN	4 wires					
	NO-NC		order No.				
10-30 Vdc	PNP NO	3 wires	andan Na				
			order No.				
10-30 Vdc	PNP NC	3 wires	order No.				
			order No.				
10-30 Vdc	NPN NO	3 wires	order No.				
	NPN		order No.				
10-30 Vdc	NC	3 wires	order No.				
	PNP		order ivo.				
10-30 Vdc	NO-NC	4 wires	order No.				
	NPN		014011101				
10-30 Vdc	NO-NC	4 wires	order No.				
10-30 Vdc	NO-NC	2 wires	order No.				
				CSP40K4	CSP41K4		
20-250 Vac/Vdc	N0	2 wires	order No.	958901380	958901390		
00.05037.071	NO	0					
20-250 Vac/Vdc	/dc NC 2 wires	2 wires	order No.				
20.250.1/-	NO	0/0					
20-250 Vac	N0	2/3 wires	Z/3 WITES	2/3 WILES	order No.		
10-30 Vdc	Analog 0-20	nalog 0-20 a .					
10-30 vac	mA	3 wires	order No.				
NAMUR amplifier	NAMUR	2 wires					
TVAMOR ampliner	NAMON	2 WIICS	order No.				
Nonetonal Webser				20.250.1// 15/100/) 54	00 0F0 V - / 1F/100/\ FA		
Nominal Voltage				20-250 Vac (-15/10%)-5A source current <10%	20-250 Vac (-15/10%)-5A source current		
Residual Ripple				<10%	<10%		
Hysteresis					< 15%		
Max. Output Current Min. Output Current				300 mA 2,5 mA	300 mA 2,5 mA		
mm. output current Residual Current	-			< 2,5 mA	< 2,5 mA		
Setting				sensitivity adjustment trimmer	sensitivity adjustment trimmer		
Operation Led				Yellow	Yellow		
Switching Frequence	·v			25 Hz	25 Hz		
Start Up Delay	,						
Repeatability				< 5%	< 5%		
Short Circuit Protection			Present(self-resetting)	Present(self-resetting)			
Electric Protection			Against polarity reversal inductive loads	Against polarity reversal			
Tampanetrus Line's					inductive loads		
Temperature Limit			- 25 +70 C IP67	- 25 +70 C IP67			
Protection Degree					IP6/		
Cable Length Cable Section							
Housing Material					Plastic (PBT)		
Housing Material Weight - Cable Outp	ut			Plastic (PBT)	Plastic (PBT)		
Weight - Connector				80 g	80 g		
meight - connector (vacput			ou g	ou g		

CAPACITIVE A.C. M30







				STANDARD			
				FLUSH	NON FLUSH		
				M12 conn	M12 conn		
OMINAL SWITC	HING DISTAN	ICE		220 mm	230 mm		
0-30 Vdc	PNP/NPN	4 wires					
10-30 vuc	NO-NC 4 WIFES		order No.				
0-30 Vdc	PNP	3 wires					
0-30 vuc	N0	J WII CS	order No.				
0-30 Vdc	PNP	3 wires					
0-30 vuc	NC	3 WII es	order No.				
0-30 Vdc	NPN						
U-30 VUC	NPN NO 3 wires		order No.				
0 20 1/4-	NPN	2					
0-30 Vdc	NC	3 wires	order No.				
0.207/4-	PNIP						
0-30 Vdc	NO-NC	4 wires	order No.				
0.201/-	NPN	1					
0-30 Vdc	NO-NC	4 wires	order No.				
0.001/1							
0-30 Vdc	NO-NC	2 wires	order No.				
				CSP50K4	CSP51K4		
0-250 Vac/Vdc	NO	2 wires	order No.	958901400	958901410		
0-250 Vac/Vdc	NC	2 wires	order No.				
			014011101				
0-250 Vac	N0	2/3 wires	order No.				
	Analog 0-20		order ivo.				
0-30 Vdc	mA	3 wires	order No.				
			order ivo.				
NAMUR amplifier	NAMUR	2 wires	order No.				
			order ivo.				
Nominal Voltage				20-250 Vac (-15/10%)-5A source current	20-250 Vac (-15/10%)-5A source current		
Residual Ripple				<10%	<10%		
lysteresis				<15%	< 15%		
lax. Output Curre	ant .			300 mA	300 mA		
in. Output Curre				2,5 mA	2,5 mA		
esidual Current				< 2,5 mA	< 2,5 mA		
tesiauat Current Setting				sensitivity adjustment trimmer	sensitivity adjustment trimmer		
peration Led				Yellow	Yellow		
operation Lea Switching Freque	ncv			25 Hz	25 Hz		
Start Up Delay	y			25 HZ	23 П2		
Repeatability				 < 5%	 < 5%		
Repealability Short Circuit Prot	tection			Present(self-resetting)	Present(self-resetting)		
mort Circuit Prot	IECIIOII						
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads		
	it			- 25 +70 C	- 25 +70 C		
				IP67	IP67		
Protection Degree							
Protection Degree Cable Length							
Temperature Limi Protection Degree Cable Length Cable Section	!						
Protection Degree Cable Length	!						

CAPACITIVE MULTIVOLTAGE M30

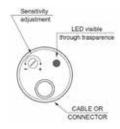




				STANDARD (TII	MER TRIMMER)
				FLUSH	NON FLUSH
				M12 conn	M12 conn
IOMINAL SWITCH	IING DISTANO	Œ		20 mm	30 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.		
10-30 Vdc	PNP NO	3 wires	order No.		
10-30 Vdc	PNP NC	3 wires	order No.		
10-30 Vdc	NPN NO	3 wires	order No.		
10-30 Vdc	NPN NC	3 wires	order No.		
10-30 Vdc	PNP NO-NC	4 wires			
10-30 Vdc	NPN NO-NC	4 wires	order No.		
10-30 Vdc	NO-NC	2 wires	order No.		
20-250 Vac/Vdc	NO	2 wires	order No.		
18230 VAC/DC	relay SPDT	6 wires	order No.	 CS31	 CS32
18230 Vac/dc	relay SPDT	6 wires	order No.	958901150 CS32TD5	958901220 CS31TD5
18230 VAC/DC	(delay ON)	6 wires	order No.	958901360 CS32TE5	958901350 CS31TE5
NAMUR amplifier	(delay OFF) NAMUR	2 wires	order No.	958901370 	958901210
			order No.		
Nominal Voltage				18-230Vac/dc (-15/10%)	18-230Vac/dc (-15/10%)
Residual Ripple				<10%	<10%
Hysteresis				<10%	<10%
Max. Output Curre	nt			3A 30 Vac- 1A 220 Vac (90 W, 360 VA)	3A 30 Vac- 1A 220 Vac (90 W, 360 VA) 2,5 VA
Absorption Residual Current				2,5 VA 	Z,J VA
Setting				sensitivity and time adj. trimmer	sensitivity and time adj. trimmer
Operation Led				Yellow	Yellow
Switching Frequer	ncv			10 Hz	10 Hz
Start Up Delay	- 1			<300 ms	<300 ms
Repeatability				<5%	<5%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				- 25 +70 C	- 25 +70 C
Protection Degree				IP65	IP65
Cable Length				2 m	2 m
Cable Section				6x0,30 mm ²	6x0,30 mm²
Housing Material				Nickel-plated brass	Nickel-plated brass
Weight - Cable Out	:put			250 g	250 g
Weight Connecte	r Output				

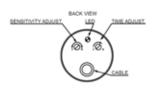
Weight - Connector Output

CAPACITIVE SETTINGS & CONNECTIONS



Sensitivity adjustment

The sensitivity adjustment must be done when the sensor is installed in a definite and steady position. The regulation must be done in a position half way between minimum and maximum, because, being air dielectric, a strong humidity variation could cause, if the regulation is very light, nuisance tripping. The sensing distance of the sensor depends on the materials to detect, on its dimension and conductivity. The distance could change according to temperature variations.



Timer adjustment

The timer trimmer allows to set a delay, on the activation (delay ON) or in the de-activation of the output, depends on the model, after the detection of the object. The output will remain active (or inactive) proportionally to the setting point of the screw, starting from 1 second up to 5 minutes.

M8 4-pole NO-NC models

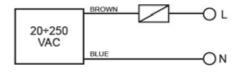


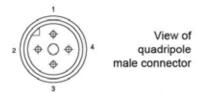
View of quadripole male connector

CONTACTS CONFIGURATION

Output	Contacts numbers			
Output	1	2	3	4
NPN/PNP NO+NC	+	NC	-	NO

2 wires Vac models

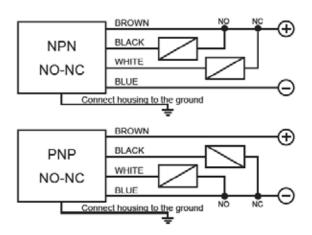




CONTACTS CONFIGURATION

Available	Contacts numbers				
Available	1	2	3	4	
NO	L		N		

4 wires NO-NC Vdc model



6 wires Mulivoltage models



2, 3, 4 wires M12, M8 connector Axial or radial 90° Shielded or unshielded Double key A.C. cable 3, 5, 7, 10, 15, 25m cable





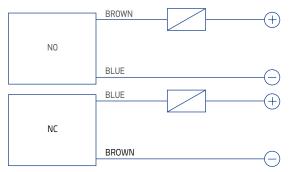
CABLES, CONNECTORS & ACCESSORIES



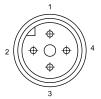
CABLES, CONNECTORS & ACCESSORIES

2 WIRES SENSORS

2 Wires No-Nc



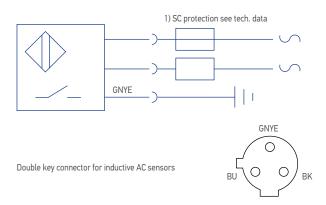
WARNING: The load can be indifferently connected in series to the blue wire or to the brown wire to simulate NPN or PNP functionning logic.



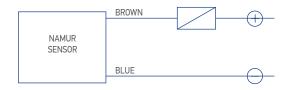
M12 connector

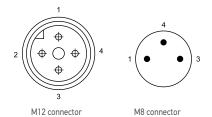
CONTACTS CONFIGURATION							
Available	Contacts numbers						
	1	2	3	4			
N0	+		-				
NC	-		+				

Inductive Ac



Namur

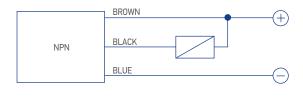


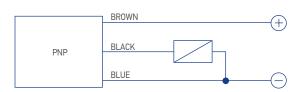


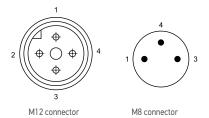
CONTACTS CONFIGURATION					
Available	Contacts numbers				
	1	2	3	4	
NAMUR	+		_		

3 WIRES SENSORS

3 Wires Pnp Or Npn, No Or Nc



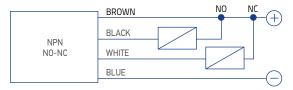


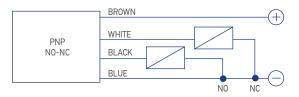


CONTACTS CONFIGURATION					
A 21.11	Contacts numbers				
Available	1	2	3	4	
(NO or NC)	+		-	NO/NC	

4 WIRES SENSORS

4 Wires (No+Nc)

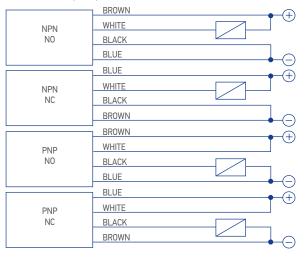




2 0 0 0 4

CONTACTS CONFIGURATION					
Output	Contacts numbers				
	1	2	3	4	
NO + NC	+	NC	-	NO	

4 Wires (Pnp/Npn, No/Nc)



CONTACTS CONFIGURATION				
Outnut	Contacts numb	ers		
Output	1	2	3	4
NPN NO	+	NO	_	_
NPN NC	-	NC	+	_
PNP NO	+	+	_	NO
PNP NC	_	+	+	NC

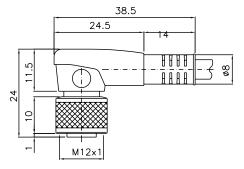
CABLES, CONNECTORS & ACCESSORIES

CONNECTOR & DIRECTION	WIRES	STYLE	CABLE LENGHT	MODEL	ORDER No.
			мв 3 m	CS-B1-01-G-03	95A251490
M8 Connector		Grey, P.V.C.	5 m	CS-B1-01-G-05	95A251510
(Axial)	3		2 m	CS-B1-01-R-02	95A251580
		P.U.R.	5 m	CS-B1-01-R-05	95A251600
			3 m	CS-B2-01-G-03	95A251500
		Grey, P.V.C.	5 m		
M8 Connector (Radial 90°)	3			CS-B2-01-G-05	95A251520
(Nadiat 70)		P.U.R.	2 m	CS-B2-01-R-02	95A251590
			5 m	CS-B2-01-R-05	95A251610
			3 m	CS-B1-02-G-03	95A251420
		Grey, P.V.C.	5 m	CS-B1-02-G-05	95A251430
		,	7 m	CS-B1-02-G-07	95A251440
M8 Connector	4		10 m	CS-B1-02-G-10	95A251480
(Axial)		P.U.R.	2 m	CS-B1-02-R-02	95A251620
		1.0.11.	5 m	CS-B1-02-R-05	95A251640
		OIL resistant	5 m	CS-B1-02-0-05	95A251730
		(CEI 2034-01)	10 m	CS-B1-02-0-10	95A251100
			3 m	CS-B2-02-G-03	95A251450
		0 80/0	5 m	CS-B2-02-G-05	95A251460
		Grey, PVC	7 m	CS-B2-02-G-07	95A251470
M8 Connector	,		10 m	CS-B2-02-G-10	95A251530
(Radial 90°)	4		2 m	CS-B2-02-R-02	95A251630
		P.U.R.	5 m	CS-B2-02-R-05	95A251650
		OIL resistant	5 m	CS-B2-02-0-05	95A251720
		(CEI 2034-01)	10 m	CS-B2-02-0-10	95A251110
		N	M12	03 82 02 0 10	7371231110
			3 m	CS-A1-01-G-03	95A251290
M12 Connector	3	Grey, P.V.C.	5 m	CS-A1-01-G-05	95A251300
(Axial)			7 m	CS-A1-01-G-07	95A251320
			10 m	CS-A1-01-G-10	95A251340
		Grey, P.V.C.	3 m	CS-A2-01-G-03	95A251200
			5 m	CS-A2-01-G-05	95A251210
			7 m	CS-A2-01-G-07	95A251220
M12 Connector	2		10 m		
(Radial 90°)	3			CS-A2-01-G-10	95A251230
		OIL resistant	3 m	CS-A2-01-0-03	95A251660
		(CEI 2034-01)	5 m	CS-A2-01-0-05	95A251670
			10 m	CS-A2-01-0-10	95A251680
M12 Connector with LED for PNP N.O. sensors) (Radial	3	Grey, P.V.C.	5 m	CS-A2-11-G-05	95A251310
90°)	3		10 m	CS-A2-11-G-10	95A251330
nielded M12 Connector (Axial)	3	Grey, P.V.C.	10 m	CV-A1-21-G-10	95ACC2060
iletaca i-112 dori ilector (i Maty		Orey, 1.v.o.	2 m	CS-A1-21-R-02	95ACC8000
2 Connector Axial Double Keyd	3	Orange, P.V.C.	3 m	CS-A1-21-R-03	95ACC8010
+ PE for AC inductive	J	Grange, r.v.c.	5 m	CS-A1-21-R-05	95ACC8020
			3 m	CS-A1-02-G-03	95A251380
		Grey, P.V.C.	5 m	CS-A1-02-G-05	95A251270
M12 Connector (Axial)	4		7 m	CS-A1-02-G-07	95A251280
(AAIdl)			10 m	CS-A1-02-G-10	95A251390
		P.U.R.	2 m	CS-A1-02-R-02	95A251540
			5 m	CS-A1-02-R-05	95A251560
			3 m	CS-A2-02-G-03	95A251360
		Grey, P.V.C.	5 m	CS-A2-02-G-05	95A251240
		01Ey, 1.v.C.	7 m	CS-A2-02-G-07	95A251245
M12 Connector	I.		10 m	CS-A2-02-G-10	95A251260
(Radial 90°)	4	DIID	2 m	CS-A2-02-R-02	95A251550
		P.U.R.	5 m	CS-A2-02-R-05	95A251570
		OIL resistant	5 m	CS-A2-02-0-05	95A251690
		(CEI 2034-01)	10 m	CS-A2-02-0-10	95A251700
M10.0			3 m	CS-A2-12-G-03	95A251400
M12 Connector with LED	4	Grey, P.V.C.	5 m	CS-A2-12-G-05	95A251350
(for PNP N.O. sensors)					

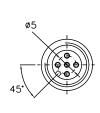
			3 m	CV-A1-22-B-03	95ACC1480	
			5 m	CV-A1-22-B-05	95ACC1490	
Shielded M12 Connector (Axial)	4	Black, P.V.C.	10 m	CV-A1-22-B-10	95ACC1500	
(May			15 m	CV-A1-22-B-15	95ACC2070	
			25 m	CV-A1-22-B-25	95ACC2090	
			3 m	CV-A2-22-B-03	95ACC1540	
Shielded M12 Connector (Radial 90°)	4	Black, P.V.C.	5 m	CV-A2-22-B-05	95ACC1550	
(Italiat 70)			10 m	CV-A2-22-B-10	95ACC1560	
	4	U.L., Black, P.V.C.	3 m	CS-A1-02-U-03	95ASE1120	
			5 m	CS-A1-02-U-05	95ASE1130	
M12 Connector (Axial)			10 m	CS-A1-02-U-10	95ASE1140	
(May			15 m	CS-A1-02-U-15	95ASE1150	
			25 m	CS-A1-02-U-25	95ASE1160	
CONNECTOR (not cabled)						
M12 Connector (Axial)	4	Black	Connector- not cabled	CS-A1-02-B-NC	G5085002	
M12 Connector (Radial 90°)	4	Black	Connector- not cabled	CS-A2-02-B-NC	G5085003	

CONNECTOR

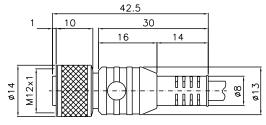
RADIAL M12



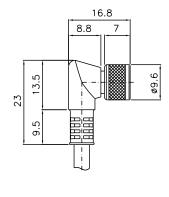


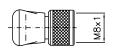


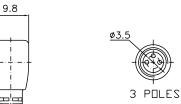
AXIAL M12



RADIAL M8



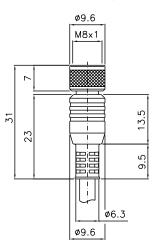




ø6.3



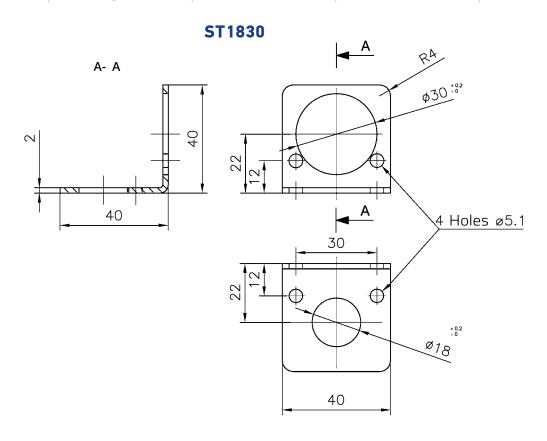
AXIAL M8



CABLES, CONNECTORS & ACCESSORIES

Accessories Selection And Order Information

CONNECTOR	TYPE	MATERIAL	CODING	ORDER No.
M12	fixing bracket	Stainless Steel	ST1218	95ACC3340
M18	fixing bracket	Stainless Steel	ST1218	95ACC3340
M30	fixing bracket	Stainless Steel	ST1830	95ACC3350



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IS-05-A1-03	95B061041	BASIC	35
IS-05-A1-S1	95B061051	BASIC	35
IS-05-A20-03	95B065410	NAMUR	62
IS-05-A3-03	95B061021	BASIC	35
IS-05-A3-S1	95B061031	BASIC	35
IS-05-A4-03	95B065420	BASIC	35
IS-05-E3-03	95B065400	BASIC	35
IS-65-A1-03	95B064730	BASIC	10
IS-65-A1-S1	95B066050	BASIC	10
IS-65-A20-03	95B066290	NAMUR	63
IS-65-A20-S1	95B066310	NAMUR	63
IS-65-A2-03 IS-65-A2-S1	95B064770 95B066090	BASIC BASIC	10
IS-65-A3-03	95B064650	BASIC	10
IS-65-A3-S1	95B064970	BASIC	10
IS-65-A4-03	95B064690	BASIC	10
IS-65-A4-S1	95B066010	BASIC	10
IS-65-B1-03	95B064750	BASIC	11
IS-65-B1-S1	95B066070	BASIC	11
IS-65-B2-03	95B064790	BASIC	11
IS-65-B2-S1	95B066110	BASIC	11
IS-65-B3-03	95B064670	BASIC	11
IS-65-B3-S1	95B064990	BASIC	11
IS-65-B4-03	95B064710	BASIC	11
IS-65-B4-S1	95B066030	BASIC	11
IS-65-C1-03	95B064890	BASIC	10
IS-65-C1-S1	95B066210	BASIC	10
IS-65-C20-03	95B066300	NAMUR	63
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IS-65-C3-03	95B064810	BASIC	10
IS-65-C3-S1	95B066130	BASIC	10
IS-65-C4-03	95B064850	BASIC	10
IS-65-C4-S1	95B066170	BASIC	10
IS-65-D1-03	95B064910	BASIC	11
IS-65-D1-S1	95B066230	BASIC	11
IS-65-D2-03	95B064950	BASIC	11
IS-65-D2-S1 IS-65-D3-03	95B066270	BASIC	11
IS-65-D3-U3	95B064830	BASIC	11
IS-65-D4-03	95B066150 95B064870	BASIC BASIC	11
IS-65-D4-63	95B066190	BASIC	11
IS-65-G1-03	95B064740	BASIC	12
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IS-65-G2-03	95B064780	BASIC	12
IS-65-G2-S1	95B066100	BASIC	12
IS-65-G3-03	95B064660	BASIC	12
IS-65-G3-S1	95B064980	BASIC	12
IS-65-G4-03	95B064700	BASIC	12
IS-65-G4-S1	95B066020	BASIC	12
IS-65-H1-03	95B064900	BASIC	13
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IS-65-H2-S1	95B066260	BASIC	13
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IS-65-N2-03	95B064960	STAINLESS STEEL	37
IS-65-N2-S1	95B066280	STAINLESS STEEL	37
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IS-08-A20-03	95B066760	NAMUR	64
IS-08-A20-S1	95B066780	NAMUR	64
IS-08-A2-03	95B061151	BASIC	14
IS-08-A2-S1	95B061171	BASIC	14
IS-08-A2-S2	95B061161	BASIC	14
IS-08-A3-03	95B061061	BASIC	14
IS-08-A3-S1	95B061081	BASIC	14
IS-08-A3-S2	95B061071	BASIC	14
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IS-08-C1-S1	95B061541	BASIC	15
IS-08-C1-S2	95B061531	BASIC	15
IS-08-C20-03	95B066750	NAMUR	65
IS-08-C20-S1	95B066790	NAMUR	65
IS-08-C20-S2	95B066770	NAMUR	65
IS-08-C2-03	95B061551	BASIC	15
IS-08-C2-S1	95B061571	BASIC	15
IS-08-C2-S2	95B061561	BASIC	15
IS-08-C3-03	95B066410	BASIC	15
IS-08-C3-S1	95B061481	BASIC	15
IS-08-C3-S2	95B061471	BASIC	15
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IS-08-D1-S1	95B066970	BASIC	17
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IS-08-G4-03	95B066350	BASIC	18	IS-12-C2-S2	95B061681	BASIC	20
IS-08-G4-S1	95B063131	BASIC	18	IS-12-C3-03	95B061581	BASIC	20
IS-08-G4-S2	95B066550	BASIC	18	IS-12-C3-S2	95B061591	BASIC	20
IS-08-H1-03	95B066480	BASIC	19	IS-12-C4-03	95B061611	BASIC	20
IS-08-H1-S1	95B066960	BASIC	19	IS-12-C4-S2	95B061621	BASIC	20
				IS-12-C9-03	95B064110	BASIC	20
IS-08-H1-S2	95B066690	BASIC	19	IS-12-C9-S2	95B064140	BASIC	20
IS-08-H2-03	95B066500	BASIC	19				
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IS-08-H2-S2	95B063301	BASIC	19	IS-12-D1-S2	95B062451	BASIC	21
IS-08-H3-03	95B066420	BASIC	19	IS-12-D2-03	95B062471	BASIC	21
IS-08-H3-S1	95B066910	BASIC	19	IS-12-D2-S2	95B062481	BASIC	21
IS-08-H3-S2	95B066640	BASIC	19	IS-12-D3-03	95B062381	BASIC	21
				IS-12-D3-S2	95B062391	BASIC	21
IS-08-H4-03	95B066460	BASIC	19	IS-12-D4-03	95B062411	BASIC	21
IS-08-H4-S1	95B063251	BASIC	19	IS-12-D4-S2	95B062421	BASIC	21
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				IS-12-E1-S2	95B067030	BASIC	22
IS-08-M2-03	95B066400	STAINLESS STEEL	38	IS-12-E2-03	95B067680	BASIC	22
IS-08-M2-S1	95B066900	STAINLESS STEEL	38	IS-12-E2-S2	95B067640	BASIC	22
IS-08-M2-S2	95B066630	STAINLESS STEEL	38	IS-12-E3-03	95B067690	BASIC	22
IS-08-M3-03	95B066340	STAINLESS STEEL	38	IS-12-E3-S2	95B067650	BASIC	22
IS-08-M3-S1	95B066820	STAINLESS STEEL	38	IS-12-E4-03	95B067700	BASIC	22
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				IS-12-E9-03	95B067200	BASIC	22
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IS-08-N1-03	95B066490	STAINLESS STEEL	39	IS-12-F1-S2	95B067020	BASIC	22
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IS-12-A15-03	95B060680	INDUCTIVE AC	56	IS-12-G5-S2	95B062691	BASIC	23
IS-12-A15-S2	95B060690	INDUCTIVE AC	56	IS-12-G6-03	95B062661	BASIC	23
IS-12-A20-03	95B064160	NAMUR	66				
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IS-12-A2-03	95B061271	BASIC	20	IS-12-H1-03	95B063441	BASIC	23
				IS-12-H1-S2	95B063451	BASIC	23
IS-12-A2-S2	95B061281	BASIC	20	IS-12-H2-03	95B063461	BASIC	23
IS-12-A3-03	95B061181	BASIC	20	IS-12-H2-S2	95B063471	BASIC	23
IS-12-A3-S2	95B061191	BASIC	20	IS-12-H3-03	95B063401	BASIC	23
IS-12-A4-03	95B061211	BASIC	20	IS-12-H3-S2	95B063411	BASIC	23
IS-12-A4-S2	95B061221	BASIC	20	IS-12-H4-03	95B063421	BASIC	23
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				IS-12-H5-S2	95B062771	BASIC	23
IS-12-B1-S2	95B062051	BASIC	21	IS-12-H6-03	95B062741	BASIC	23
IS-12-B2-03	95B062071	BASIC	21	IS-12-H6-S2	95B062751	BASIC	23
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IS-12-B4-03	95B062011	BASIC	21	IS-12-M2-S2	95B060250	STAINLESS STEEL	40
IS-12-B4-S2	95B062021	BASIC	21	IS-12-M3-S2	95B060260	STAINLESS STEEL	40
IS-12-C0-03	95B064040	BASIC	20				
IS-12-C0-S2	95B064080	BASIC	20	IS-12-M4-S2	95B060270	STAINLESS STEEL	40
				IS-12-N1-S2	95B060280	STAINLESS STEEL	40
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IS-18-A1-S2	95B061351	BASIC	24
IS-18-A15-03	95B060770	INDUCTIVE AC	57
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IS-18-A20-03	95B064360	NAMUR	67
IS-18-A20-S2	95B064380	NAMUR	67
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IS-18-A3-03	95B061301	BASIC	24
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IS-18-A4-03	95B061321	BASIC	24
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