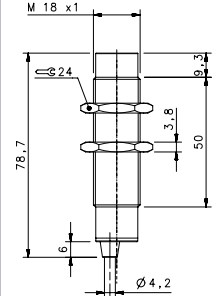
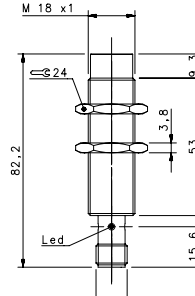
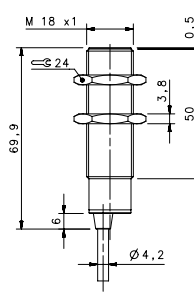
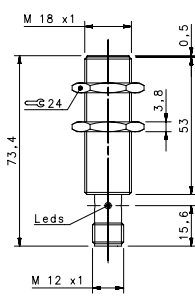


# BASIC



# BASIC M18



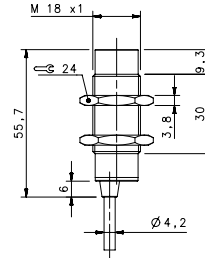
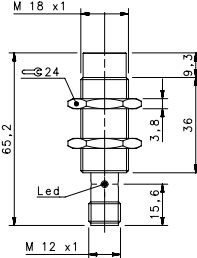
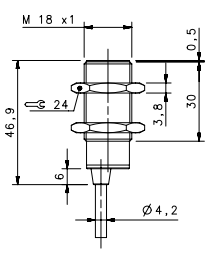
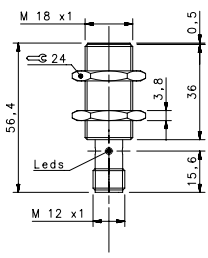
## STANDARD

### FLUSH

### NON FLUSH

				M12 conn	cable	M12 conn	cable
<b>NOMINAL SWITCHING DISTANCE</b>				5 mm	5 mm	8 mm	8 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.	IS-18-A0-S2 95B064260	IS-18-A0-03 95B064230	IS-18-C0-S2 95B064280	IS-18-C0-03 95B064240
10-30 Vdc	PNP NO	3 wires	order No.	IS-18-A1-S2 95B061351	IS-18-A1-03 95B061341	IS-18-C1-S2 95B061751	IS-18-C1-03 95B061741
10-30 Vdc	PNP NC	3 wires	order No.	IS-18-A2-S2 95B061371	IS-18-A2-03 95B061361	IS-18-C2-S2 95B061771	IS-18-C2-03 95B061761
10-30 Vdc	NPN NO	3 wires	order No.	IS-18-A3-S2 95B061311	IS-18-A3-03 95B061301	IS-18-C3-S2 95B061711	IS-18-C3-03 95B061701
10-30 Vdc	NPN NC	3 wires	order No.	IS-18-A4-S2 95B061331	IS-18-A4-03 95B061321	IS-18-C4-S2 95B061731	IS-18-C4-03 95B061721
10-30 Vdc	PNP NO-NC	4 wires	order No.	---	---	---	---
10-30 Vdc	NPN NO-NC	4 wires	order No.	---	---	---	---
10-30 Vdc	NO-NC	2 wires	order No.	IS-18-A9-S2 95B063941	S-18-A9-03 95B064300	IS-18-C9-S2 95B064340	IS-18-C9-03 95B064310
20-250 Vac/Vdc	NO	2 wires	order No.	---	---	---	---
20-250 Vac/Vdc	NC	2 wires	order No.	---	---	---	---
20-250 Vac	NO	2/3 wires	order No.	---	---	---	---
10-30 Vdc	Analog 0-20 mA	3 wires	order No.	---	---	---	---
NAMUR amplifier	NAMUR	2 wires	order No.	---	---	---	---

<b>Nominal Voltage</b>	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
<b>Residual Ripple</b>	< 10%	< 10%	< 10%	< 10%
<b>Hysteresis</b>	< 10%	< 10%	< 10%	< 10%
<b>Max. Output Current</b>	200 mA	200 mA	200 mA	200 mA
<b>Min. Output Current</b>	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)
<b>Residual Current</b>	< 10 mA	< 10 mA	< 10 mA	< 10 mA
<b>Voltage Drop</b>	< 1,8V; < 6,5 V (2wires ver.)	< 1,8V; < 6,5 V (2wires ver.)	< 1,8V; < 6,5 V (2wires ver.)	< 1,8V; < 6,5 V (2wires ver.)
<b>Operation Led</b>	Yellow	Yellow	Yellow	Yellow
<b>Switching Frequency</b>	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)
<b>Start Up Delay</b>	< 50 ms	< 50 ms	< 50 ms	< 50 ms
<b>Repeatability</b>	< 3%	< 3%	< 3%	< 3%
<b>Short Circuit Protection</b>	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
<b>Electric Protection</b>	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
<b>Temperature Limit</b>	(-25 ... +60 °C)	(-25 ... +60 °C)	(-25 ... +60 °C)	(-25 ... +60 °C)
<b>Protection Degree</b>	IP67	IP67	IP67	IP67
<b>Cable Length</b>	---	2 m	---	2 m
<b>Cable Section</b>	---	2 x 0,34 mm <sup>2</sup> 3 x 0,14 mm <sup>2</sup> 4 x 0,25 mm <sup>2</sup>	---	2 x 0,34 mm <sup>2</sup> 3 x 0,14 mm <sup>2</sup> 4 x 0,25 mm <sup>2</sup>
<b>Housing Material</b>	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
<b>Active face</b>	LCP	LCP	LCP	LCP
<b>Tightening torque</b>	* 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
<b>Weight - Cable Output</b>	---	145g	---	145g
<b>Weight - Connector Output</b>	95g	---	95g	---

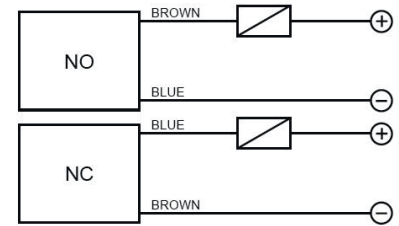


### SHORT

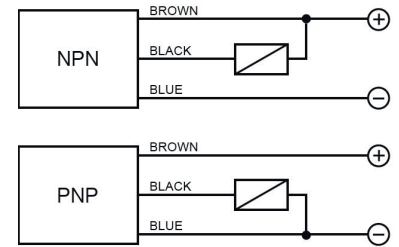
FLUSH		NON FLUSH	
M12 conn	cable	M12 conn	cable
5 mm	5 mm	8 mm	8 mm
---	---	---	---
IS-18-B1-S2	IS-18-B1-03	IS-18-D1-S2	IS-18-D1-03
95B062151	95B062141	95B062551	95B062541
IS-18-B2-S2	IS-18-B2-03	IS-18-D2-S2	IS-18-D2-03
95B062171	95B062161	95B062571	95B062561
IS-18-B3-S2	IS-18-B3-03	IS-18-D3-S2	IS-18-D3-03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

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%	< 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)
IP67	IP67	IP67	IP67
---	2 m	---	2 m
---	3 x 0,14 mm <sup>2</sup>	---	3 x 0,14 mm <sup>2</sup>
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	---

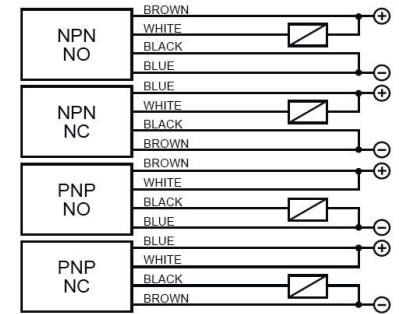
### 2 wires NO or NC



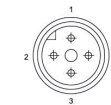
### 3 wires PNP or NPN



### 4 wires (PNP/NPN, NO/NC)



### M12 connector - connections



### 2 wires NO or NC

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

### 3 wires

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

### 4 wires (PNP/NPN, NO/NC)

Output	CONTACTS CONFIGURATION			
	Contacts numbers			
NPN NO	1 (+)	2 (NO)	3 (-)	4 (-)
NPN NC	1 (-)	2 (NC)	3 (+)	4 (-)
PNP NO	1 (+)	2 (+)	3 (-)	4 (NO)
PNP NC	1 (-)	2 (+)	3 (+)	4 (NC)



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