

M18 Stainless Steel, DC



You are in: [Crouzet Products /Switches and Sensors /Inductive Proximity Sensors /M18 Series /M18 Stainless Steel, DC](#)

M18 Screened

<u>Nominal Sensing Distance Sn (mm)</u>	<u>Connection</u>	<u>3-Wire DC Polarity PNP</u>	<u>3-Wire DC Polarity NPN</u>	<u>Part Number</u>
5	2 m PVC Cable	NO		<u>84717250</u>
5	2 m PVC Cable	NC		<u>84717251</u>
5	2 m PVC Cable		NO	<u>84717350</u>
5	2 m PVC Cable		NC	<u>84717351</u>

M18 Non-Screened

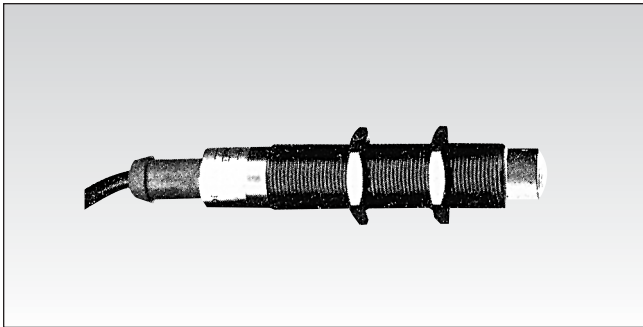
<u>Nominal Sensing Distance Sn (mm)</u>	<u>Connection</u>	<u>3-Wire DC Polarity PNP</u>	<u>3-Wire DC Polarity NPN</u>	<u>Part Number</u>
8	2 m PVC Cable	NO		<u>84717252</u>
8	2 m PVC Cable	NC		<u>84717253</u>
8	2 m PVC Cable		NO	<u>84717352</u>
8	2 m PVC Cable		NC	<u>84717351</u>

M18 Long Barrel, Screened

<u>Nominal Sensing Distance Sn (mm)</u>	<u>Connection</u>	<u>3-Wire DC Polarity PNP</u>	<u>3-Wire DC Polarity NPN</u>	<u>Part Number</u>
5	2 m PVC Cable	NO		<u>84717050</u>

Analog Inductive Proximity Detectors

The analog sensors offer an output voltage variation which is linear and proportional to the distance of the object being detected. The output voltage will be reduced as the object approaches the sensor.



Form	M 18 x 1 x 80
Sensing distance in linear zone (mm)	5
Housing	Stainless Steel
Connection type	PVC 2.0 meter cable
Part number reference	IMB1805T
Min./max. supply voltage	12 to 24 VDC
Own consumption (I _o)	1 mA
Output voltage at 5mm	3 V
Voltage limits in linear zone	0.4 to 3 V at 24 VDC
Load resistance	10 to 100 k
Constant ratio in linear zone	At 24 V 52 mV / 0.1mm
	At 12 V 26 mV / 0.1mm
Switching frequency	10 kHz
Operating temperature	0 to 60°C

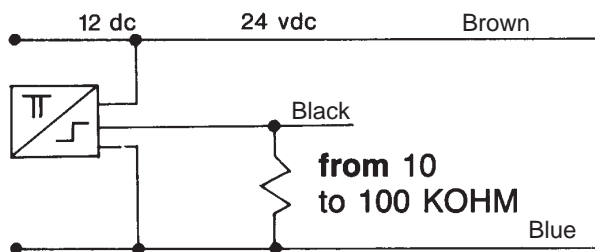
Accessories

Mounting flanges, see page 3/102

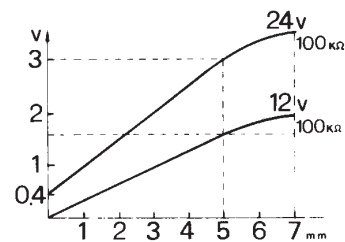
Connectors, see pages 3/100 to 3/101

Wiring

Wiring diagram



Response curve

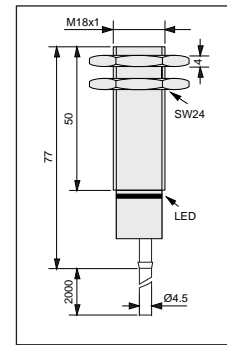
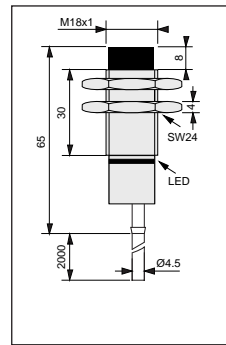
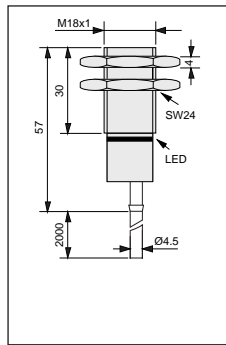


Other Information:

For other characteristics, longer cables, longer barrels, different connectors, please consult the factory.

To order, please specify: **IMB1805T** Normally stocked items Catalog items produced to order

Inductive Proximity Detectors - M18 - Stainless Steel



Form
Nominal sensing distance S_n (mm)
Housing
 Tightening torque (Nm)
 Termination

M18 screened
 5
 Stainless steel
 50
 2 m PVC cable
 *M12s/steel connector

M18 non-screened
 8
 Stainless steel
 50
 2 m PVC cable
 *M12s/steel connector

M18 long, screened
 5
 Stainless steel
 50
 2 m PVC cable

Part numbers

3-wire DC types

PNP	NO	
	NC	
NPN	NO	
	NC	

84 717 250		
84 717 251		
84 717 350		
84 717 351		
10 to 40 V $\bar{\text{=}}$		
200 mA		
0.05 mA / 6.5 mA		
2 V / < 10 %		
500 Hz / 10 ms		
yes		
yes		
yes		
3 x 0.3 mm ² / 5.2 mm		

84 717 252		
84 717 253		
84 717 352		
84 717 353		
10 to 40 V $\bar{\text{=}}$		
200 mA		
0.05 mA / 6.5 mA		
2 V / < 10 %		
400 Hz / 10 ms		
yes		
yes		
yes		
3 x 0.3 mm ² / 5.2 mm		

84 717 050		
84 717 051		
84 717 150		
84 717 151		
10 to 40 V $\bar{\text{=}}$		
200 mA		
0.05 mA / 6.5 mA		
2 V / < 10 %		
500 Hz / 10 ms		
yes		
yes		
yes		
3 x 0.3 mm ² / 5.2 mm		

Part numbers

2-wire AC types

Polarity	NO	
	reversible NC	
Min/max. supply voltage		
Min/max. load current (Ia)		
Residual open-state current (I _r)		
Voltage drop in closed state (U _d)		
Switching frequency / Delay on pick-up (t _d)		
LED indicator		
Conductor cross-section		

84 717 650	*84 717 672		
84 717 651	*84 717 673		
20 to 250 V \sim			
5 to 500 mA			
< 2 mA			
< 8 V			
5 Hz / 100 ms			
yes			
2 x 0.5 mm ² / 5.2 mm			

84 717 652	*84 717 670		
84 717 653	*84 717 671		
20 to 250 V \sim			
5 to 500 mA			
< 2 mA			
< 8 V			
5 Hz / 100 ms			
yes			
2 x 0.5 mm ² / 5.2 mm			

Other information

Special adaptations are available depending on the type of request and quantity required. Eg. cable length, tube length, connector type, etc.