

## 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		<b><a href="#">84717250</a></b>
5	2 m PVC Cable	NC		<b><a href="#">84717251</a></b>
5	2 m PVC Cable		NO	<b><a href="#">84717350</a></b>
5	2 m PVC Cable		NC	<b><a href="#">84717351</a></b>

### M18 Non-Screened

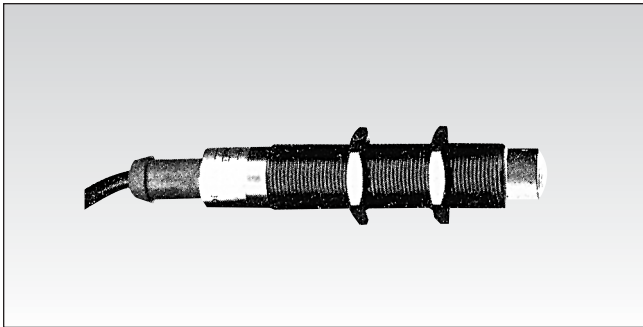
<u>Nominal Sensing Distance Sn (mm)</u>	<u>Connection</u>	<u>3-Wire DC Polarity PNP</u>	<u>3-Wire DC Polarity NPN</u>	<u>Part Number</u>
8	2 m PVC Cable	NO		<b><a href="#">84717252</a></b>
8	2 m PVC Cable	NC		<b><a href="#">84717253</a></b>
8	2 m PVC Cable		NO	<b><a href="#">84717352</a></b>
8	2 m PVC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

### 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		<b><a href="#">84717050</a></b>

# 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.



<b>Form</b>	M 18 x 1 x 80
Sensing distance in linear zone (mm)	5
Housing	Stainless Steel
Connection type	PVC 2.0 meter cable
<b>Part number reference</b>	<b>IMB1805T</b>
Min./max. supply voltage	12 to 24 VDC
Own consumption (I <sub>o</sub> )	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

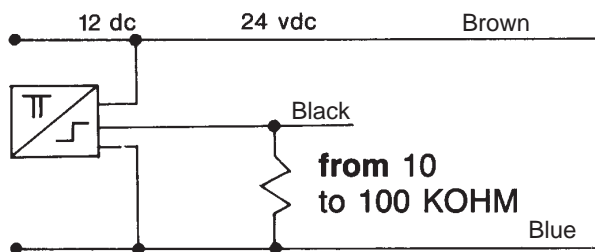
## Accessories

Mounting flanges, see page 3/102

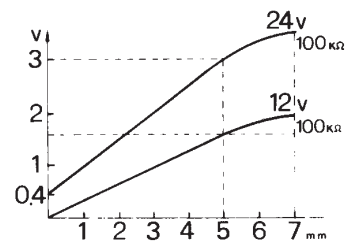
Connectors, see pages 3/100 to 3/101

## Wiring

Wiring diagram



Response curve

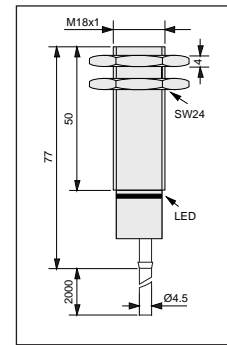
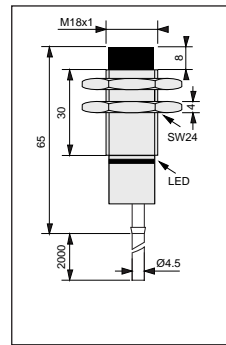
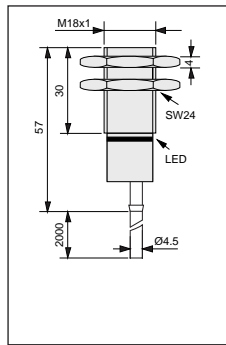


## Other Information:

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



<b>Form</b>
<b>Nominal sensing distance <math>S_n</math> (mm)</b>
<b>Housing</b>
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

<b>PNP</b>	<b>NO</b>
	<b>NC</b>
<b>NPN</b>	<b>NO</b>
	<b>NC</b>

<b>84 717 250</b>
<b>84 717 251</b>
<b>84 717 350</b>
<b>84 717 351</b>
10 to 40 V $\equiv$
200 mA
0.05 mA / 6.5 mA
2 V / < 10 %
500 Hz / 10 ms
yes
yes
yes
3 x 0.3 mm <sup>2</sup> / 5.2 mm

<b>84 717 252</b>
<b>84 717 253</b>
<b>84 717 352</b>
<b>84 717 353</b>
10 to 40 V $\equiv$
200 mA
0.05 mA / 6.5 mA
2 V / < 10 %
400 Hz / 10 ms
yes
yes
yes
3 x 0.3 mm <sup>2</sup> / 5.2 mm

<b>84 717 050</b>
<b>84 717 051</b>
<b>84 717 150</b>
<b>84 717 151</b>
10 to 40 V $\equiv$
200 mA
0.05 mA / 6.5 mA
2 V / < 10 %
500 Hz / 10 ms
yes
yes
yes
3 x 0.3 mm <sup>2</sup> / 5.2 mm

Min/max. supply voltage
Max. load current (Ia)
Residual open-state current (I <sub>r</sub> ) / Own consumption (I <sub>o</sub> )
Voltage drop in closed state (U <sub>d</sub> ) / Max. ripple factor (V <sub>r</sub> )
Switching frequency / Delay on pick-up (t <sub>d</sub> )
LED indicator
Protection against permanent short-circuits and overloads
Protection against mis-connections of any type
Conductor cross-section / External cable diameter

## Part numbers

### 2-wire AC types

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

<b>84 717 650</b>
<b>84 717 651</b>
20 to 250 V $\sim$
5 to 500 mA
< 2 mA
< 8 V
5 Hz / 100 ms
yes
2 x 0.5 mm <sup>2</sup> / 5.2 mm

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

<b>84 717 652</b>
<b>84 717 653</b>
20 to 250 V $\sim$
5 to 500 mA
< 2 mA
< 8 V
5 Hz / 100 ms
yes
2 x 0.5 mm <sup>2</sup> / 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.