

## OPERATING PRINCIPLE

The permanent magnet is mounted to the piston. When the magnet approaches the detector, its own magnetic field generates variations of the current within the detector oscillator. An amplifier converts them into switch signals.



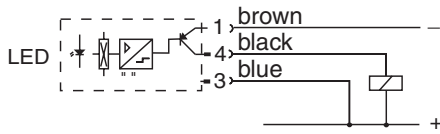
## DETECTOR CHARACTERISTICS

MAX. SWITCHING CAPACITY	10 VA	
SWITCHING VOLTAGE	<b>10 to 30 V DC</b>	
FUNCTION	PNP or NPN on closing	
MAX. NOMINAL CURRENT	200 mA	
RESIDUAL VOLTAGE AT I <sub>Lmax</sub>	< 3 v	
SWITCHING TIME	< 2 ms	
REVERSE POLARITY PROTECTION	integrated	
SHORT-CIRCUIT PROTECTION	integrated	
SWITCHABLE CAPACITY	0,1µF at 100 Ω, 24 V DC	
SWITCHING DISTANCE	approx. 15 mm	
HYSTERESIS	< 2 mm	
LIFE	practically unlimited	
WORKING TEMPERATURE	-25°C to +80°C	
HOUSING	PEI	
DEGREE OF PROTECTION(CEI 529)	IP67	
SIGNAL INDICATION	Yellow diode (LED) which lights up when the contact is established	
CONNECTION (2 possibilities / 2 types at option)	0,1 m PUR lead + 3-pin screw-type male connector, Ø M8 <b>PNP function</b>	0,145 m PUR lead + 3-pin screw-type male connector, Ø M8 <b>NPN function</b>
Weight (g)	5,4	6
<b>CODE DETECTOR + MOUNTING KIT (1)</b>	<b>88144817</b>	<b>88144818</b>

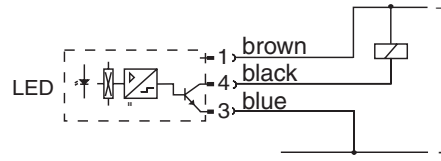
(1) Detector supplied with mounting kit for direct fitting into one of the dovetail rails on the rodless cylinder.

**WIRING DIAGRAM OF MAGNETO-INDUCTIVE POSITION DETECTOR**

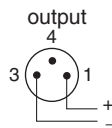
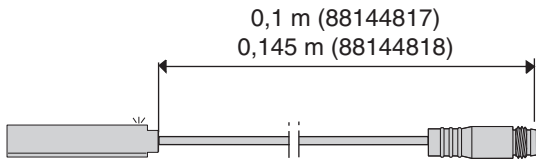
Detector **88144817**  
PNP function on closing



Detector **88144818**  
NPN function on closing



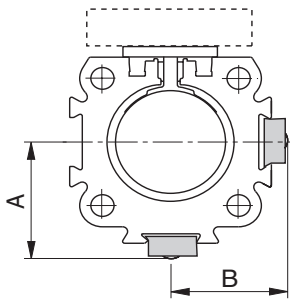
**MAGNETO-INDUCTIVE DETECTOR CONNECTION: 1 possibility**



PUR lead outlet Ø 3 mm with 3-pin screw-type male connector Ø M8

View on pin side of male connector

**DIMENSIONS**



Bore (mm)	A	B
16	20,5	20
25	27	25
32	34	31
40	39	36
50	48	43
63	59	53
80	72	66

**DETECTOR MOUNTING**

The detector is directly fitted into one of the dovetail rails on the rodless cylinder using a hex key wrench. It is fastened with a locking screw after having been positioned at the point of detection.

1,5 mm hex key wrench  
Tightening torque = 0,25 Nm

