MAGNETIC POSITION DETECTOR

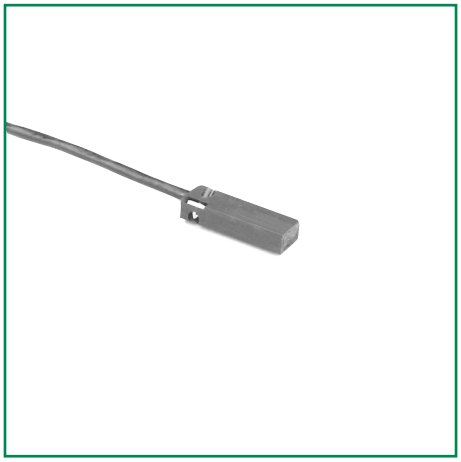
reed switch

for series 448 rodless cylinders
types STBN - STB - STBB

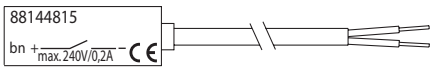
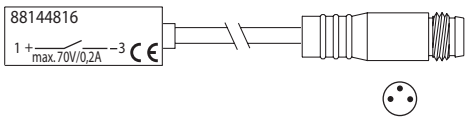
Series
881
Type
2 wires

OPERATING PRINCIPLE

A permanent magnet (M) which is mounted on the piston of the air cylinder activates the reed switch of the non-contact magnetic position detector fastened in one of the dovetail rails in the non-magnetic cylinder body. One or more detectors can be mounted to control the cylinder's end-of-stroke or intermediate positions.



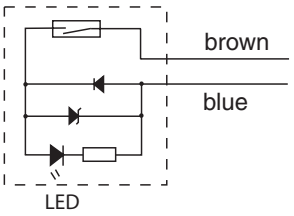
DETECTOR CHARACTERISTICS

MAX. SWITCHING CAPACITY	10 VA	
SWITCHING VOLTAGE	**10 to 240 V DC and AC**	**10 to 70 V DC and AC**
MAX. NOMINAL CURRENT	200 mA	
RESIDUAL VOLTAGE AT I_{Lmax}	< 3 v	
SWITCHING TIME	< 2 ms	
POLARITY REVERSAL	Led does not work	
SWITCHABLE CAPACITY	0,1 µF at 100 Ω, 24 V DC	
SWITCHING DISTANCE	approx. 15 mm	
HYSTERESIS	< 2 mm	
LIFE	3 x 10^6 operations	
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)	5 m PVC lead, 2 wires 0,14 mm², stripped ends 	0,1 m PVC lead + 3-pin screw-type male connector, Ø M8 
Weight (g)	57,4	6,3
CODE DETECTOR + MOUNTING KIT (1)	**88144815**	**88144816**

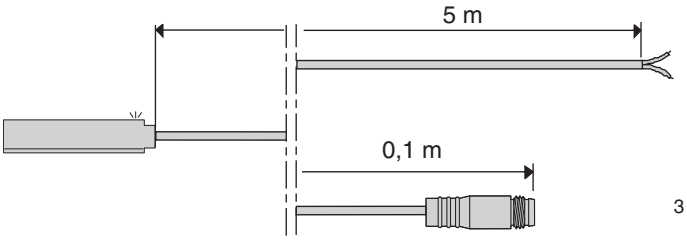
(1) Detector supplied with mounting kit for direct fitting into one of the dovetail rails on the rodless cylinder.

WIRING DIAGRAM OF REED-SWITCH TYPE POSITION DETECTOR

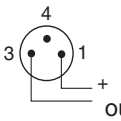
Detectors **88144815 - 88144816**
normally open (NO)



DETECTOR CONNECTION : 2 possibilities



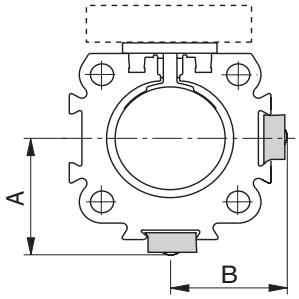
PVC lead outlet Ø 3 mm with stripped ends
2 wires 0,14 mm² .
brown = +
blue = output



PVC lead outlet Ø 3 mm with 3-pin screw-type male connector Ø M8 (2 pins connected)

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