



The BradConnectivity™ magnetic cylinder switch provides easy and protected assembly for common T-Slot cylinders in harsh industrial environments.

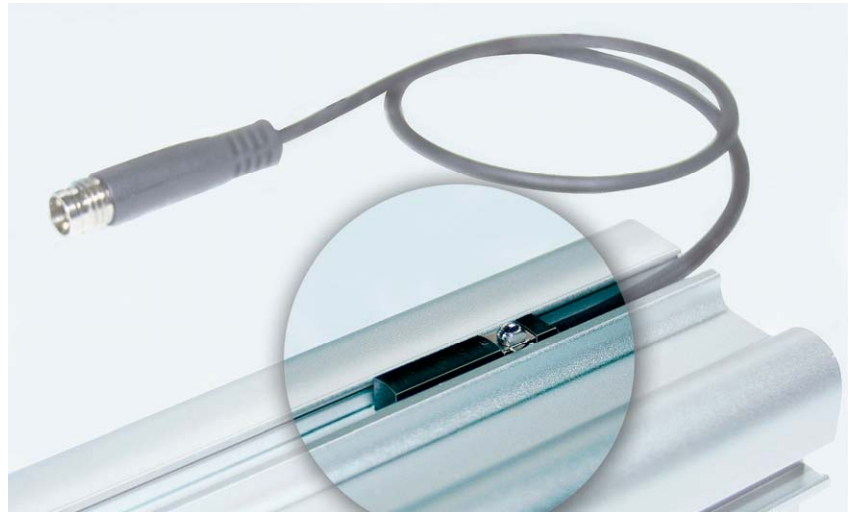
Magnetic Cylinder Switch

Features

- **Self-clamping fixture for quick adjustment and easy mounting.**
- **Easy mounting into T-slot cylinder from the top.**
- **Compatible with most common T-slots cylinders.**
- **IP67 protection rating for applications in harsh environments**
- **Different connection plugs and cable lengths available.**

Typical Applications

- **Measures the position of the cylinder.**
- **The sensor is designed for common T-slot cylinders in all harsh industrial applications.**
- **Custom accessories enable mounting on different cylinder types such as trapezoidal slot, tie-rod, clean-line and integrated profile cylinders.**



Overview

The BradConnectivity™ mPm® magnetic cylinder switch provides longer life and greater reliability over conventional reed switches. Additionally, our innovative design provides easy and protected assembly for common T-slot cylinders used in harsh industrial environments.

The sensor is easily installed from the top and immediately snaps securely into place due to its innovative clamping mechanism. Adjustments to the sensor position are quickly made using the slotted hexagonal socket screw.

Since the BradConnectivity™ mPm® magnetic cylinder switch is completely surrounded by the slot, there is no room for mechanical damage. The self-clamping fixture is located at the end of the switch rather than at its head, which reduces mechanical stresses and provides better protection against inadvertent tear-out or switch point change.

Magnetic Cylinder Switch



Other Fluid Power Connectivity



Overmolded DIN Cordsets
Style: A, B, B IND, C, C IND



Overmolded DIN/M12 Splitter

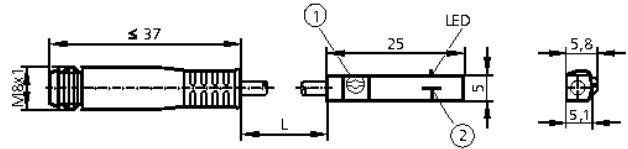


Overmolded Mini and Multipoint Splitter



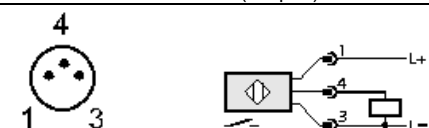
Field Attachable Connectors with and w/o circuits
Style: A, B, B IND, C, C IND

Dimensions (mm)



1 - Fastening clamp; 2 - Sensing face

Technical Data

Electrical design	DC PNP
Output	normally open
Operating voltage [V]	10...30 DC (operating voltage "supply class 2" to cULus)
Current rating [mA]	100
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Voltage drop [V]	< 2.5
Current consumption [mA]	< 10
Hysteresis	< 1.5 [mm]
Repeatability	< 0.2 [mm]
Power-on delay time [ms]	< 30
Switching frequency [Hz]	> 10000
Operating temperature [°C]	-25...85
Protection	IP 67, III
EMC	IEC 1000-4-2 / EN 61000-4-2: - CD / 8 kV AD IEC 1000-4-3 / EN 61000-4-3: 10 V/m, 80...1000 MHz IEC 1000-4-4 / EN 61000-4-4: 2 kV IEC 1000-4-5 / EN 61000-4-5: 0.5 kV (line to line, Ri: 20Ohm) IEC 1000-4-6 / EN 61000-4-6: 10 V / 0.15...80 MHz EN 55011: class B
Housing material	PA (polyamide); stainless steel
Function display	
Switching status LED	yellow
Connection	- PUR cable; 3 x 0.14 mm ² (without connector) - PUR cable with M8 connector (snap-fit)
Wiring	
Accessories (included)	rubber placeholder, cable clip
Accessories (optional)	DEF11796 (adapter for trapezoidal slot cylinders) DEF11797, DEF11799, DEF11801 (adapter for tie rod / integrated profile cylinders) DEF11798 (memorization block) DEF11816-DEF11823 (fixing straps for cylinders) DEF11846 (cylinder switch strap saddles)

Ordering Information

Part No°	Description
DSF4N200	Magnetic Cylinder Switch with cable length 2m
DSF4N250	Magnetic Cylinder Switch with cable length 5m
DSF3N203	Magnetic Cylinder Switch with cable length 0.3m with M8 connector

To contact us: www.woodhead.com

North America: US: +1 (630) 969-4550 – Canada: +1 519 725 5136

Europe: France: +33 2 32 96 04 20 – Germany: +49 7252 94 96 0 – Italy: +39 (02) 950551 – UK: +44 (1252) 720720

Asia: China: +86 21-5048-0889 Singapore: +65 6-268-6868 – Japan: +81 46-265-2325 – Korea: +82 31-492-9000

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