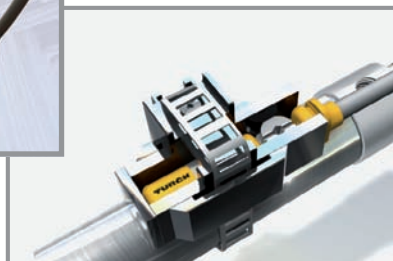
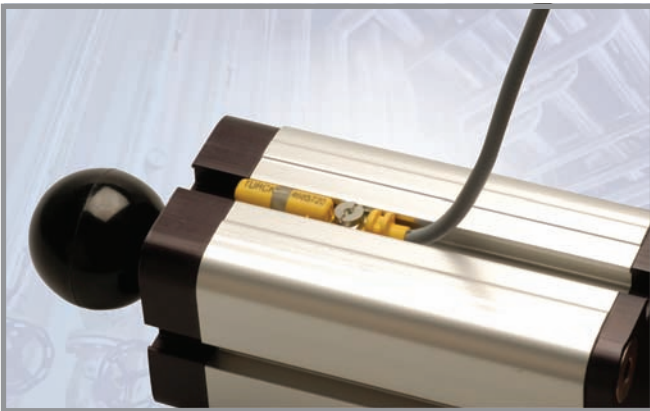


The **BIM-UNT**, a universal magnetic field sensor, is the latest addition to the inductive-magnetic family of switches by **TURCK**. It has the ability to detect the position of a piston on all types of standard pneumatic cylinders. The sensor is polarity protected, has reliable switching points and a fast response time. It is immune to high levels of EMC and vibration, and is IP 67 rated for use in harsh environments.

The **BIM-UNT** not only offers improved packaging and performance, it also simplifies maintenance, helps prevent over-stocking and streamlines the production process. Additionally, it comes with compatible accessories to help ease installation.



Mounting Advantages

The BIM-UNT universal magnetic field sensor is designed to detect the piston on all standard pneumatic cylinders. The sensor can be direct mounted with the help of cost-efficient accessories, making it one of the most versatile sensors on the market.

- A strategically placed wire and screw holds the sensor down – even when the cable is tugged on – and helps eliminate cable strain.
- The sensor is equipped with a simple and robust mounting system to ensure stability during operation. This makes it easy to install and ensures fewer re-adjustments of the sensor.
- Economical accessories, from precision mounts and wire-strain accessories, to optional clips that hold the wire in place in any shaped groove. This eliminates the need for expensive custom-fit accessories.

BIM-UNT: Mounting and Adjustment Accessories

Dimensional Drawings	Part Number	ID Number	Description
	KLR-UNT1	M6970623	Accessory for mounting on a round/tie-rod cylinder, diameter = 8-25 mm.
	KLR-UNT2	M6970624	Accessory for mounting on a round/tie-rod cylinder, diameter = 25-63 mm.
	KLR-UNT3	M6970625	Accessory for mounting on a round/tie-rod cylinder, diameter = 63-100 mm.
	KLDT-UNT2	S6913351	Accessory for mounting on a dovetail cylinder, L = 7 mm.
	KLDT-UNT3	S6913352	Accessory for mounting on a dovetail cylinder, L = 9.4 mm.
	KLDT-UNT4	S6913353	Accessory for mounting on a dovetail cylinder, L = 11.5 mm.
	KLDT-UNT5	S6913354	Accessory for mounting on a dovetail cylinder, L = 12.6 mm.
	KLZ1-INT	M6970410	Accessory for mounting on a tie-rod cylinder, diameter = 7.5 mm.
	KLZ2-INT	M6970411	Accessory for mounting on a tie-rod cylinder, diameter = 9.5 mm.
	KLZ3-INT	M6970412	Accessory for mounting on a tie-rod cylinder, diameter = 11.0 mm.
	UNT-Adjusting Bracket	S4685750	Adjustable precision-tuning accessory for locating the switching points. Can be used multiple times.
	UNT-Stopper	S4685751	Accessory for marking the switching points on T-groove cylinders.
	INT Cable Clip	M6900456	Accessory for securing the cable in place to avoid cable strain. Packing unit = 10 pieces. (One piece included in the BIM-UNT.)

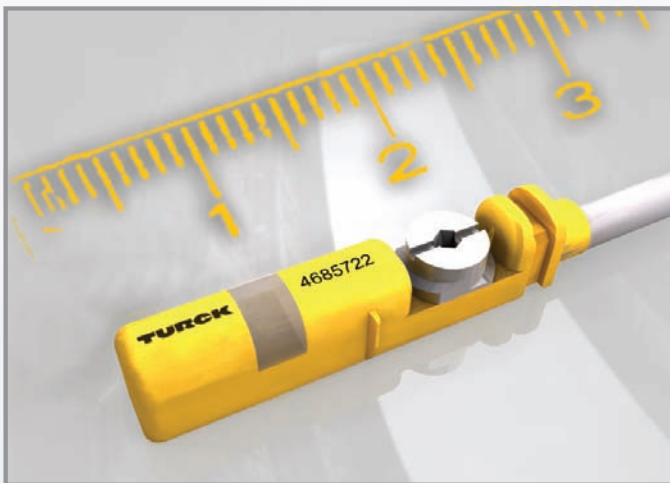
Stable and Reliable Mounting

After the sensor has been inserted into the cylinder's groove, a *quick-mount* tab on the side of the sensor helps seat the sensor until the screw is tightened. This makes it easy to mount the sensor with one hand, even while it is facing downwards. The screw is made of a tool steel alloy and can be tightened with the help of a 1.5 mm Allen wrench or a standard flat-head screwdriver. This ensures stability and resistance to vibration under the harshest conditions.



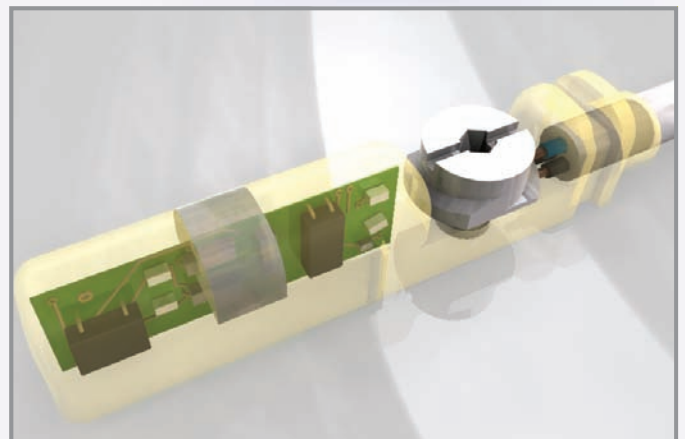
Compact Housing Style & LED

The **BIM-UNT** comes with enhanced packaging and performance. It is only 28 mm in length, making it one of the most compact sensors on the market. The bright LED located on top of the sensor makes it possible to check the switching status from any convenient working angle. The sensing face is located near the front of the sensor, allowing the position of the piston rod to be consistently detected — even on compact, short stroke cylinders.



Standards

Magneto Resistive technology enables the sensor to detect the exact position of the magnet, while avoiding multiple switching points. It also exceeds the IEC standard specifications, EN60947-5-2 and EN 61000-4-6, making it compliant with these standards and immune to high levels of EMC.



Technical Data:

Ambient Temperature	-25 to +70 °C (158 °F)
Operating Voltage	10 to 30 VDC
Ripple Vpp	≤ 10% U _{ss}
Rated Operating Current DC	≤ 150 mA
No-load Current I _o	≤ 15 mA
Off-state Current	≤ 0.1 mA
Switching Frequency	≤ 1 kHz
Output Function	3-wire, N.O., PNP
Short-circuit Protection	Yes / Cyclic
Voltage Drop I _e	≤ 1.8 V
Wire-break/Reverse Polarity Protection	Yes / Completely
Vibration Resistance	55 Hz (1mm)
Shock Resistance	30 g (11 ms)
Degree of Protection	IP67
Overtravel Speed	10 m/s



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