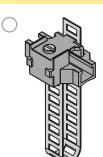
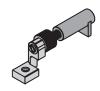
Mounting Accessories

UNT-Adjusting Bracket

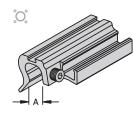


Part Number Cylinder Diameter KLRC-UNT1 .315-0.984 in [8-25 mm] .984-2.480 in [25-63 mm] KLRC-UNT2 KLRC-UNT3 2.480-5.118 in [63-130 mm]



KLZ*-INT

UNT-Stopper



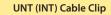
Part Number Tie Rod Diameter 'A' .295 in [7.5 mm] KLZ1-INT KLZ2-INT .374 in [9.5 mm] KLZ3-INT .433 in [11.0 mm]





KLDT-UNT*







1. To be used with ASB strap on round cylinders

ASB-*



Part Number Cylinder Diameter **ASB-1 STRAP** .276-.433 in [7-11 mm] **ASB-2 STRAP** .433-.748 in [11-19 mm] **ASB-3 STRAP** .709-1.142 in [18-29 mm] **ASB-4 STRAP** 1.102-1.535 in [28-39 mm] **ASB-5 STRAP** 1.496-1.929 in [38-49 mm] **ASB-6 STRAP** 1.890-2.323 in [48-59 mm] **ASB-7 STRAP** 2.283-2.717 in [58-69 mm] **ASB-8 STRAP** 2.677-3.110 in [68-79 mm] **ASB-9 STRAP** 3.071-3.504 in [78-89 mm]









SG-UNT



Part Number SG-UNT



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3000 Campus Drive Minneapolis, MN 55441 Phone: (763) 553-7300 Fax: (763) 553-0708 Application Support: 1-800-544-7769



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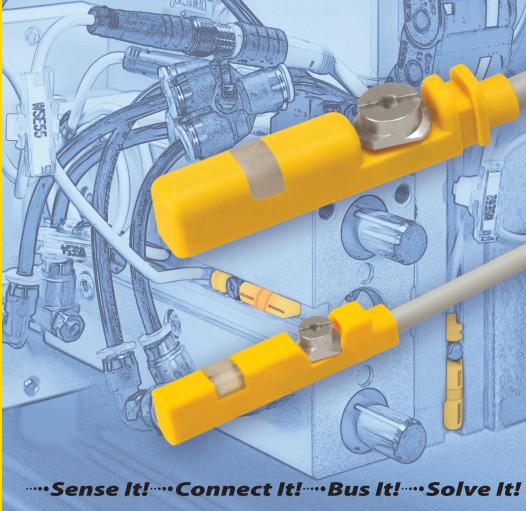
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B1112 11/13





CYLINDER POSITION SENSORS



www.turck.us

CYLINDER POSITION SENSORS



WHAT IS A MAGNETO-RESISTIVE SENSOR?

TURCK cylinder position sensors are used for the detection of magnet equipped pistons on pneumatic cylinders through a nonmagnetic wall. A patented, state of the art electronic magnetic circuit is the basis of operation for these sensors. These sensors are manufactured using a polypropylene over-molding technology, which allows the sensor to be completely sealed into small sizes without compromising durability. The small size also allows for very low profiles that reduce the chance of damage when mounted to the outside of the cylinder.

TURCK has taken the approach of using two sensor styles, along with various adapter brackets, to fit individual cylinder's for the majority of applications. The "UNT" and "UNR" housings were designed to fit into specific grooves found in extruded profile type cylinders, as well as standalone devices without the need for any additional brackets. The UNT style was made to fit into a standard "T" groove and the UNR was made for the "C" groove, neither requiring additional hardware for standard mounting. Both of these designs allow the sensor to be dropped in from above anywhere along the span of the cylinder.

WHERE CAN I USE A MAGNETO-RESISTIVE SENSOR?

- Material handling
- Sorting
- Automated assembly
- Product positioning

Stamping

■ Industrial robots

Conveying

WHY CHOOSE TURCK MAGNETO-RESISTIVE SENSORS?

Reliable mounting

The sensor is mounted in the cylinder's groove and tightened with a screw. Located near the cable outlet, the screw helps make sure the sensor doesn't move during vibration or if the cable is pulled.



A wing screw made of tool steel only requires a quarter-turn to tighten securely.



Compact housing style

UNT models measure only 28 mm, while UNR models measure only 18 mm; making them the most compact sensors available on the market. Since the active sensing face is located at the sensor's end, the piston can be detected up to the end, even on compact short stroke cylinders.



Visible LED

A bright LED indicates the current switching status, and is visible from any position.



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, EN60947-5-2 and EN 61000-4-6, making it immune to high levels of EMC.



Optional accessories

A large range of accessories are available for mounting, adjustment and installation, as well as clips for cable routing.





BIM-UNTK, Potted-in cable, 2M PUR cable BIM-UNTK-AP6X 1 BIM-UNTK-AP7X BIM-UNTK, M8 picofast® quick-disconnect pigtail, 0.3M PUR cable BIM-UNTK-AP6X-0.3M-PSG 3M 2 BIM-UNTK-AP7X-0.3M-PSG 3M 2 BIM-UNTK, M12 eurofast® threaded pigtail, 0.3M PUR cable BIM-UNTK-AP7X-0.3M-RS 4T 3 BIM-UNT, Potted-in cable, 2M and 7M PUR cable RTM-IINT-AP6X S4685720 BIM-UNT-AN6X S4685702 BIM-UNT-AP6X 7M S4685721 S4685701 BIM-UNT-AN6X 7M BIM-UNT, M8 picofast® quick-disconnect pigtail, 0.3M PUR cable BIM-UNT-AP6X-0.3M-PSG 3S S4685722 BIM-UNT-AN6X-0.3M-PSG 3S S4685705 BIM-UNT, M8 picofast® threaded pigtail, 0.3M PUR cable BIM-UNT-AP6X-0.3M-PSG 3M \$4685723 BIM-UNT-AN6X-0.3M-PSG 3M S4685706 BIM-UNT Dually, M12 eurofast® threaded pigtail, 0.2M PUR cable BIM-UNT-AP6X-0.3M-RS 4T S46857260 BIM-UNT-2AP6X-0.2M-RSC 4.4T S4685891 BIM-UNR, Potted-in cable, 2M and 7M PUR cable BIM-UNR-AP6X W/M \$4685842 BIM-UNR-AN6X W/M S4685847 BIM-UNR-AN6X 7M W/M \$4685851 S4685846 BIM-UNR-AP6X 7M W/M BIM-UNR, M8 picofast® quick-disconnect pigtail, 0.3M PUR cable BIM-UNR-AP6X-0.3M-PSG 3S W/M \$4685843 10 BIM-UNR-AN6X-0.3M-PSG 3S W/M \$4685848 10 BIM-UNR, M8 picofast® threaded pigtail, 0.3M PUR cable BIM-UNR-AP6X-0.3M-PSG 3M W/M \$4685844 11 BIM-UNR-AN6X-0.3M-PSG 3M W/M S4685849 11

ID Number

Drawing

Dimensional Drawings

BIM-UNR, M12 eurofast® threaded pigtail, 0.3M PUR cable BIM-UNR-AP6X-0.3M-RS 4T W/M S4685845 12 BIM-UNR-AN6X-0.3M-RS 4T W/M S4685850 12 BIM-UNR Dually, M12 eurofast® quick-disconnect pigtail, 0.2M PUR cable

Technical Specifications:

BIM-UNR-2AP6X-0.2M-RSC 4.4T

Part Number

	Operating Voltage:	10-30 VDC
	Ripple V _{pp} :	≤ 10% U _{ss}
	No-load Current I _o :	≤ 15 mA
	Off-state Current:	≤ 0.1 mA
	Switching Frequency:	UNT: ≤ 1 kHz; UNR: ≤ 0.3 kHz
	Rated Operating Current:	UNT: DC ≤ 150 mA; UNR: DC ≤ 100 mA
	Output Function:	3-wire, N.O., PNP/NPN

Ambient Temperature: -25° to +70°C (-13° to 158°F)

S4685899

Short-circuit Protection: Yes / Cyclic Voltage Drop I :: ≤ 1.8 V Vibration Resistance: 55 Hz (1mm) **Shock Resistance:** 30 g (11 ms) Degree of Protection: IP67 Overtravel Speed: UNT: 10 m/s; UNR: 3 m/s Wire-break/ Reverse Polarity Protection: Yes weldguard Protection: Yes, add "/S1589" to part number

1	2	3
.197 [5.0] .236 [6.0] .197 [5.0] .894 [22.7]	.197 [5.0] LED .894 [22.7]	.197 [5.0] LED LED .894 [22.7
4	5	6
.197 [5.0] LED 1.102 [28.0]	.197 [5.0] LED	.236 [6.0] .197 [5.0] LED 1.102 [28
7	8	9
.197 [5.0] LED .1.102 [28.0]	.197 [5.0] LED 1.102 [28.0]	.114 [2.9] TLED T.181
10	1	1
.114 [2.9] LED LED .181 [4.6]	.114 [2.9]	7.09 [18.0]
12	1	3
.114 [2.9] .181 [4.6] .181 [4.6] .181 [4.6]	.114 [2.9]	181 [4.6] 180 [18.0]

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