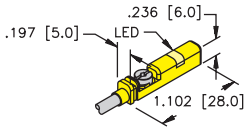
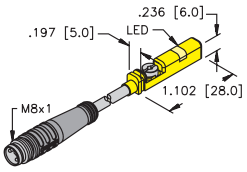
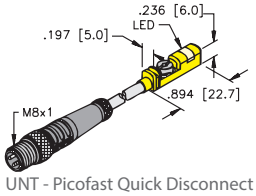
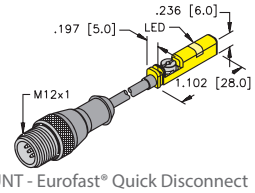
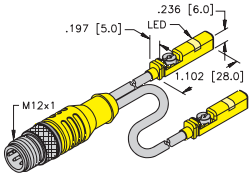
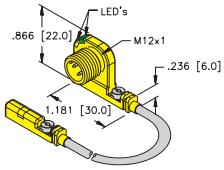
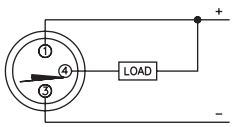
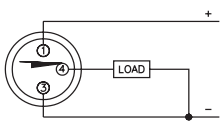
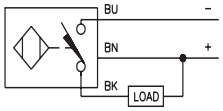
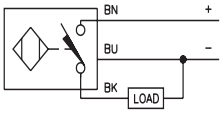
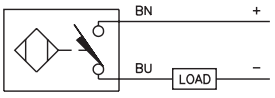
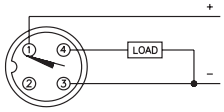
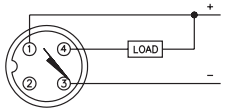
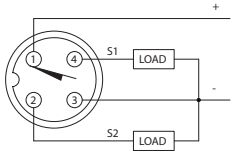
Cylinder Position Sensors | BIM-UNT

T-groove, C-groove, Tie-rod, and Round Cylinder Style

Housing Style	Dimension Drawings	
	A  UNT - Potted-In Cable	B  UNT - Picofast® Quick Disconnect
C  UNT - Picofast Quick Disconnect	D  UNT - Eurofast® Quick Disconnect	E  UNT - Eurofast Quick Disconnect
F  UNT - Eurofast Quick Disconnect		

Wiring Diagrams/Mating Cordsets

1  Mating Cordset: PKG 3Z-*	2  Mating Cordset: PKG 3Z-*; PKG 3M-*	3 	4 
5 	6  Mating Cordset: RK 4T-*	7  Mating Cordset: RK 4T-*	8  Mating Cordset: RK 4.4T-*; RKC 4.4T-*

A13 — **3-wire DC - Magnetic (AN, RN, AP, RP)**

Ripple:	≤10%	Power-On Effect:	Per IEC 947-5-2
Differential Travel (Hysteresis):	≤1 mm	Reverse Polarity Protection:	Incorporated
Voltage Drop Across Conducting Sensor:	≤1.8 V	Wire-Break Protection:	Incorporated
Trigger Current for Short Circuit Protection:	≥220 mA on 200 mA Load Current	Transient Protection:	Per EN 60947-5-2
	≥170 mA on 150 mA Load Current	Temperature Drift:	≤0.1 mm, ≤0.3 mm (UNR)
	≥120 mA on 100 mA Load Current	Shock:	30 g, 11 ms
Off-State (Leakage) Current:	≤0.1 mA	Vibration:	55 Hz, 1 mm Amplitude in all 3 Planes
No-Load Current:	≤15 mA;	Repeatability:	≥± 0.1 mm, ≥± 0.3 mm (UNR)
Pass Speed:	≤10 ms; ≤3 ms (UNR)		

A14 — **2-wire DC - Magnetic (AD, AG)**

Ripple:	≤10%	Off-State (Leakage) Current:	≤0.8 mA
Differential Travel (Hysteresis):	≤1 mm	Power-On Effect:	Per IEC 947-5-2
Voltage Drop Across Conducting Sensor:	Non-Polarized (AD) ≤4 V	Transient Protection:	Per EN 60947-5-2
	Polarized (AG) ≤3.5 V	Shock:	30 g, 11 ms
Trigger Current for Short Circuit Protection:	≥120 mA	Vibration:	55 Hz, 1 mm Amplitude in all 3 Planes
Pass Speed:	≤3 ms, ≤10 ms (UNT)	Repeatability:	≥± 0.1 mm

Additional Specifications

Magnetic Actuation Strength (Gauss): 20-350

We reserve the right to make technical alterations without prior notice.

Cylinder Position Sensors | BIM-UNT

T-groove, C-groove, Tie-rod, and Round Cylinder Style

Part Number/ ID Number	Features	Output	Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Cable Length/Jacket	Dimension Drawings	Wiring Diagrams	Spec List
BIM-UNT-AN6X 4685702		3-wire DC, NPN	10-30 VDC	1000	≤ 200	-25 to +70	IP67	PA 12	2M/TPU	A	3	A13
BIM-UNT-AP6X 4685741		3-wire DC, PNP	10-30 VDC	1000	≤ 200	-25 to +70	IP67	PA 12	2M/TPU	A	4	A13
BIM-UNT-AG41X/S1139/S1160 4685766	Irradiated TPU Cable, Wider Range	2-wire DC	10-55 VDC	300	≤ 100	-25 to +70	IP67	PA 12	2M/TPU	A	5	A14
BIM-UNT-AN6X-0.3-PSG3S 4685705	Fixed Coupling Nut	3-wire DC, NPN	10-30 VDC	1000	≤ 200	-25 to +70	IP67	PA 12	0.3M/TPU	B	1	A13
BIM-UNT-AP6X-0.3-PSG3S 4685722	Fixed Coupling Nut	3-wire DC, PNP	10-30 VDC	1000	≤ 200	-25 to +70	IP67	PA 12	0.3M/TPU	B	2	A13
BIM-UNT-AP6X-0.3-PSG3M 4685723	Rotating Coupling Nut	3-wire DC, PNP	10-30 VDC	1000	≤ 200	-25 to +70	IP67	PA 12	0.3M/TPU	C	2	A13
BIM-UNT-AP6X-0.3-RS4T 46857260		3-wire DC, PNP	10-30 VDC	1000	≤ 200	-25 to +70	IP67	PA 12	0.3M/TPU	D	6	A13
BIM-UNT-AN6X-0.3-RS4T 4685792		3-wire DC, NPN	10-30 VDC	1000	≤ 200	-25 to +70	IP67	PA 12	0.3M/TPU	D	7	A13
BIM-UNT-0.3-UNT-2AP6X3-H1141 4685730	Dual Switch	4-wire DC, PNP	10-30 VDC	1000	≤ 150	-25 to +70	IP67	PP	0.3M/TPU	F	8	A13
BIM-UNT-AP6X/S991 4685728	Radial Magnetic Fields	3-wire DC, PNP	10-30 VDC	1000	≤ 150	-25 to +70	IP67	PP	2M/TPU	B	4	A13
BIM-UNT-2AP6X-0.2-RSC4.4T 4685891	Dual Switch	4-wire DC, PNP	10-30 VDC	1000	≤ 150	-25 to +70	IP67	PP	0.2M/TPU	E	8	A13

We reserve the right to make technical alterations without prior notice.