

Sensors Part Number Key

B i 10 U - G T 30 - A DZ 30 X2															Wiring Option*	Special Option Code*
<div><div><div>Mounting</div><div>B = embeddable BID = high pressure sensor N = nonembeddable S = slot W = position</div></div><div><div>Principle of Operation</div><div>C = capacitive CC = capacitive, (ESD immune) CF = capacitive (noise immune) CT = teach programmable I = inductive IM = inductive magnet operated</div></div><div><div>Rated Operating Distance (mm)</div></div><div><div>Sensing Characteristics</div><div>F = front sensing on Q34 sensor FE = ferrous only NF = nonferrous only R = ring sensor T = top sensing on Q34 sensor U = Uprox® sensor</div></div><div><div>Housing Material Modifier</div><div>E = stainless steel</div></div><div><div>Housing Style</div><div>Barrel - Metal G = full threading, generally chrome plated brass H = smooth, chrome plated brass or stainless steel HS = smooth side sensor M = partial threading, chrome plated brass</div><div>Barrel - Plastic K = smooth P = full threading S = partial threading T = right angle</div><div>Rectangular Q = metal or plastic, various rectangular styles QV = plastic, variable position QF = plastic, flat, rectangular style</div><div>Limit Switch CA = Stubby, short aluminum housing, connector CK = Stubby, short plastic housing, connector CP = Combiprox, plastic housing, terminal chamber</div><div>Slot K = slot sensor, plastic housing</div><div>Ring/Tube S32 = large plastic rectangular, static or dynamic output Q = small rectangular plastic housing, static output W = small plastic housing, dynamic output TS = tube sensing, plastic housing</div><div>Permaprox Cylinder Sensors AKT = plastic, clamp-on; active face centered IKE = metal, clamp- or strap-on; active face on end IKM = metal, clamp- or strap-on; active face middle IKT = metal, clamp- or strap-on; active face centered UNT = plastic, groove mount or strap-on; active face on end UNR = plastic, round groove, top load, active face on end UNC = plastic, round groove, end load; active face on end KST = metal/plastic, strap-on; active face centered NST = plastic, clamp-on; active face centered PSM = metal/plastic, strap-on; active face on end PST = plastic, strap-on; active face on end</div><div>Cylinder Rotatable CRS = cylinder rotatable sensor with probe, metal</div><div>Primary Barrel Modifier T = PTFE coated</div></div></div>															<div><div>Additional Features</div><div>LD = load dump T = teach buttons</div><div>Number of LEDs</div><div>(blank) = no LEDs X = 1 LED, signal X2 = 2 LEDs, power and signal X3 = 3 LEDs, power and two seperate signals</div><div>Voltage Range</div><div>AC/DC: (No SCP**)</div><div>3 = 20-250 VAC, 10-300 VDC 14 = 20-132 VAC, 10-140 VDC 31 = 20-250 VAC, 10-300 VDC, plastic barrel, 100 mA 33 = 20-250 VAC, 10-300 VDC, grounded metal barrel, 100 mA</div><div>AC/DC: (Latched SCP)</div><div>30 = 20-250 VAC, 10-300 VDC 400 mA 32 = 20-250 VAC, 10-300 VDC 100 mA</div><div>DC: (Polarity Protected and SCP)</div><div>4 = 10-65 VDC 5 = 4.75-5.25 VDC 6 = 10-30 VDC 7 = 10-30 VDC, TTL compatible, No SCP 8 = 19.2-28.8 VDC 41 = 10-55 VDC 44 = 10-55 VDC 45 = 8.6-65 VDC</div><div>Output</div><div>2APS = 2 x OSSD, N.O., PNP D = 2-wire DC (transistor output) DZ = 2-wire AC/DC, (power MOSFET output) G = 2-wire DC, low voltage drop N = NPN transistor (current sinking) P = PNP transistor (current sourcing) R = relay output Z = 2-wire AC or 2-wire AC/DC</div><div>Output Function</div><div>A = normally open (N.O.) DA = dynamic output (ring sensor), normally open F = connection programmable (N.O. or N.C.) IOL = IO-Link LI = linear analog output, current only LU = linear analog output, voltage only LIU = linear analog output, voltage and current R = normally closed (N.C.) SIU = analog output (non-linear) U = programmable by jumper (N.O. or N.C.) V = complementary outputs: one N.O., one N.C. Y0 = NAMUR output, requires switching amplifier Y1 = NAMUR output, requires switching amplifier, ATEX Approved</div><div>Secondary Barrel Modifier</div><div>CA = conduit adaptor connection E = extended barrel length F = stainless steel face H = Stoneface cap material K = short barrel length M = medium barrel length S = side sensing SE = extended length (rectangular only) SK = right-angle terminal chamber SR = straight terminal chamber T = barb fitting at cable entry TC = terminal chamber WD = washdown IP67/IP68/IP69K</div><div>Housing Diameter or Height (mm) or CRS Probe Length (mm = Number/10)</div></div>	

NOTE:
Part number keys are to assist in identification only.
Verify new part numbers with factory; some configurations are not possible.
* See reverse side for wiring options and special option codes.
**SCP = short-circuit and overload protection

Wiring Options

A) Connectorized Sensor

Bi2-M12-AN6X		-	H1	1	4	1
Connector Family			Factory Code			
B1	= Minifast, 7/8"-16UN, metal, male		0 = non-standard wiring			
B2	= Minifast, 7/8"-16UN, plastic, male		1 = standard wiring			
B3	= Microfast, 1/2"-20UNF, metal, male		3 = N.C. DC output on pin 4			
H1	= Eurofast, M12x1, metal or plastic, male		4 = N.O. 2 wire DC output on pin 4			
V1	= Picofast, M8x1, snap and threads, metal or plastic, male					
Connector/Sensor Transition			Number of Pins			
1	= straight		3 = 3			
3	= straight with adapter		4 = 4			
4	= right angle with adapter		5 = 5			

B) Potted Cable

Bi2-M12-AN6X	7M
Cable Length	
(blank) = 2 meter cable	
7M	= 7 meter cable
*M	= custom cable lengths available

C) Potted Cable with Molded Connector

Bi2-M12-AN6X				-	0.2	-	RS 4.21T	
Cable Length						Standard Cordset Connector		
0.2	= 0.2 meters (minimum)						AC: RSM30	= Minifast, 7/8"-16UN, metal, male, 3-conductor
2M	= 2 meters						RSM40	= Minifast, 7/8"-16UN, metal, male, 4-conductor
*M	= custom cable lengths available						SB3T	= Microfast, 1/2"-20UNF, metal, male, 3-conductor
							DC: RS4T	= Eurofast, M12x1, metal or plastic, male, 3-conductor
							RS4.2T	= Eurofast, M12x1, metal or plastic, male, 2-conductor, pins 3 & 4
							RS4.21T	= Eurofast, M12x1, metal or plastic, male, NAMUR, 2-conductor
							RS4.23T	= Eurofast, M12x1, metal or plastic, male, 2-conductor, pins 1 & 4
							RS4.4T	= Eurofast, M12x1, metal or plastic, male, 4-conductor
							PSG3	= Picofast, snap, plastic, male, 3-conductor
							PSG3M	= Picofast, M8x1, metal, male, 3-conductor

Special Option Codes

Option Codes for Special or Custom-Built Sensors

Bi	2-S12-AN7X	/S100	OR	Bi10R-W30-DAN6X-H1141	/F2
				/F2 = alternate oscillator frequency	
/S34	= weld field immune				
/S90	= TPU cable				
/S97	= -40 °C (-40 °F) operating temperature				
/S100	= +100 °C (+212 °F) operating temperature				
/S120	= +120 °C (+248 °F) operating temperature				
/S139	= submersible				
/S250	= without potentiometer (capacitive only)				
/S907	= +160 °C (+320 °F) operating temperature				
/S1589	= barrel sensors with Weldguard laminate				
/S1590	= rectangular sensor with Weldguard laminate				
/S1610	= barrel sensors with Armorguard sleeve and Weldguard laminate				
/S1751	= C1D2 approved				
/S1144	= PTFE tubing				
/S1154	= PTFE tubing/Weldguard sensor				