



TURCK Sensors Part Number Key

B i 10 U				-	G T 30				-	A DZ 30 X2				Wiring Option*	Special Option Code*
Mounting B = embeddable BID 2 = high pressure sensor N = nonembeddable S = slot W = position														Load Dump LD = load dump	
Principle of Operation C = capacitive CC = ESD immune CF = capacitive (noise immune) i = inductive IM = inductive magnet operated R = reed														Number of LEDs (blank) = no LED's X = 1 LED X2 = 2 LED's	
Rated Operating Distance (mm)														Voltage Range AC/DC: (No SCP**) 3 = 20-250 VAC, 10-300 VDC 14 = 20-132 VAC, 10-140 VDC 31 = 20-250 VAC, 10-300 VDC, plastic barrel 33 = 35-250 VAC, grounded metal barrel AC/DC: (Latched SCP) 30 = 20-250 VAC, 10-300 VDC 32 = 20-250 VAC, 10-300 VDC 40 = 20-140 VAC/DC, high off-state current DC: 4 = 10-65 VDC, polarity protected, pulsed SCP** 6 = 10-30 VDC, polarity protected, pulsed SCP 7 = 10-30 VDC, TTL compatible 8 = 20-30 VDC, polarity protected, pulsed SCP 41 = 10-65 VDC, polarity protected, pulsed SCP 44 = 10-55 VDC 45 = 8.4-64 Volts 61 = 10-30 VDC, polarity protected, pulsed SCP **SCP = short-circuit and overload protection	
Sensing Characteristics F = front sensing on Q26 and Q34 sensor FE = ferrous only NF = nonferrous only R = ring sensor S = side sensing on Q26 sensor T = side sensing on Q34 sensor U = <i>uprox</i> ® sensor														Output D = 2-wire DC (transistor output) DZ = 2-wire AC/DC, (power MOSFET output) LF = frequency output G = 2-wire DC, low voltage drop LI(LU) = linear analog output current (LI, 15-30 VDC) or voltage (LU, 18-30 VDC) LIU = linear analog output (current and voltage, 15-30 VDC) N = NPN transistor (current sinking) P = PNP transistor (current sourcing) R = relay output SIU = analog output (non-linear) Z = 2-wire AC or 2-wire AC/DC	
Housing Material Modifier E = stainless steel														Output Function A = normally open (N.O.) DA = dynamic output (ring sensor), normally open F = connection programmable (N.O. or N.C.) R = normally closed (N.C.) U = jumper programmable (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	
Housing Style Barrel - Metal G = full threading, generally chrome plated brass GS = threaded side sensor H = smooth, chrome plated brass or stainless steel HS = smooth side sensor M = partial threading, chrome plated brass Barrel - Plastic K = smooth P = full threading PT = PVDF, full threading S = partial threading SK = side sensing / slot sensor, plastic housing T = right angle TS = tube sensing Rectangular Q = metal or plastic, various rectangular styles QV = plastic, variable position Limit Switch CA = <i>stubby</i> ®, short aluminum housing, connector CK = <i>stubby</i> ®, short plastic housing, connector CP = <i>combiprox</i> ®, plastic housing, terminal chamber base with removable sensor Slot K = slot sensor, plastic housing Ring 32SR = large plastic housing, static or dynamic output Q = small rectangular plastic housing, static output W = small plastic housing, dynamic output <i>permaprox</i> ® A23 = metal, clamp-on; active face centered 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 on end IKT = metal, clamp- or strap-on; active face centered INT = plastic, groove mount or strap-on; active face on end INR = plastic, groove mount; 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 QST = plastic, clamp-on; active face on end UNT = new version of INT, plastic, groove mount or strap-on; active face on end Cylinder Rotatable CRS = cylinder rotatable sensor with probe, metal														Secondary Barrel Modifier CA= conduit adaptor E = extended barrel length EE = extra long barrel length F = stainless steel face FE = stainless steel face, extended barrel length FM = stainless steel face, medium barrel length H = <i>weldguard</i> ®/ <i>stoneface</i> ® K = short barrel length M = medium barrel length S = Side sensing SE = extended length (Q8SE only) SK = right-angle terminal chamber SR = straight terminal chamber T = barb fitting at cable entry TC = terminal chamber WD = washdown IP67/IP68/IP69K WDTC = washdown IP67/IP68/IP69K and terminal chamber	
Primary Barrel Modifier T = teflon® coated														Housing Diameter or Height (mm) or CRS Probe Length (mm = Number/10)	

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



Wiring Options

A) Connectorized Sensor

Bi2-M12-AN6X - H1 1 4 1

Connector Family	Factory Code
B1 = minifast ®, 7/8"-16UN, metal, male B2 = minifast ®, 7/8"-16UN, plastic, male B3 = microfast ®, 1/2"-20UNF, metal, male H1 = eurofast ®, M12x1, metal or plastic, male V1 = picofast ®, snap and M8x1, metal, male (Q08 snap only) V2 = picofast ®, snap and M8x1, male (Q08 only)	examples: 0 = non-standard wiring 1 = standard wiring 3 = N.C. DC output on pin 4 (for US) 4 = N.O. 2 wire DC output on pin 4
Connector/Sensor Transition	Number of Pins
1 = straight 3 = straight with adapter 4 = right-angle with adapter	3 = 3 4 = 4 5 = 5

B) Potted Cable

Bi2-G12-AN6X 7M

Cable Length
(blank) = 2 meter cable 7M = 7 meter cable *M = custom cable lengths available

C) Potted Cable with Molded Connector

Bi2-G12-Y0X - 0.2M - RS 4.21T

Cable Length	Standard Cordset Connector
examples: 0.2M = 0.2 meters (minimum) 2M = 2 meters *M = custom cable lengths available	AC: RSM 30 = minifast , 7/8"-16UN, metal, male, 3-conductor SB 3T = microfast , 1/2"-20UNF, metal, male, 3-conductor DC: RS 4T = eurofast , M12x1, metal or plastic, male, 3-conductor RS 4.2T = eurofast , M12x1, metal or plastic, male, 2-conductor RS 4.21T = eurofast , M12x1, metal or plastic, male, NAMUR, 2-conductor RS 4.4T = eurofast , M12x1, metal or plastic, male, 4-conductor RSM 40 = minifast , 7/8"-16UN, metal, male, 4-conductor PSG 3 = picofast , snap, plastic, male, 3-conductor PSG 3M = 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

examples:	example:
/S34 = weld field immune /S90 = PUR 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 = CA40 sensor with weldguard ® laminate /S1610 = barrel sensors with armorguard sleeve and weldguard ® laminate /S1751 = FM2 approved	/F2 = alternate oscillator frequency