

TURCK

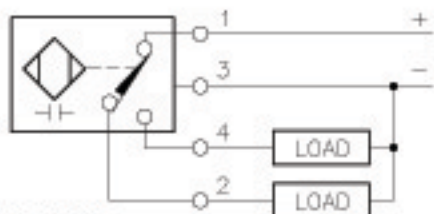
Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output
34 mm - Embeddable, Terminal Chamber 	BC15-K34SR-VN4X2	M2502128	Comp. Outputs	15	23	4-Wire DC NPN
	BC15-K34SR-VP4X2	M2502129	Comp. Outputs	15	23	4-Wire DC PNP
	BC15-K34SR-FZ3X2	M2310009	Prog. Outputs	15	23	2-Wire AC
40 mm - Embeddable, Terminal Chamber 	BC20-K40SR-VN4X2 W/M16X1.5	M2510100	Comp. Outputs	20	30	4-Wire DC NPN
	BC20-K40SR-VP4X2 W/M16X1.5	M2510000	Comp. Outputs	20	30	4-Wire DC PNP
	BC20-K40SR-FZ3X2 W/M16X1.5	M2310300	Prog. Outputs	20	30	2-Wire AC

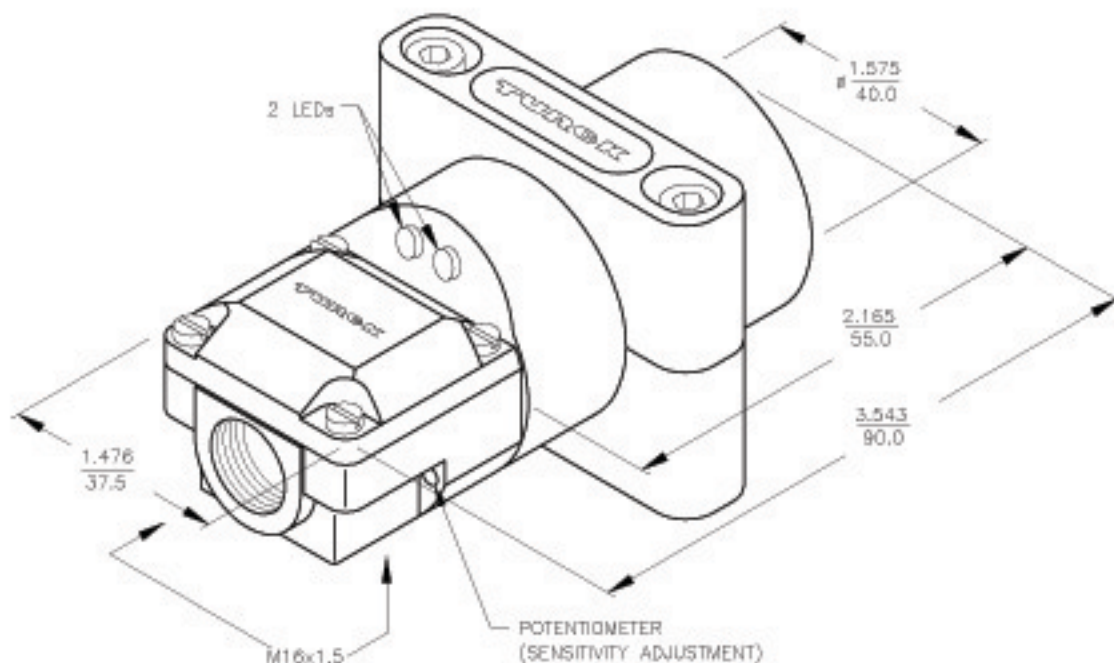
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing	End Cap	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP 67	PBT	ABS	GN	YE	----	1	Diagram 1
10-65 VDC	100	≤200	-25 to +70	IP 67	PBT	ABS	GN	YE	----	2	Diagram 2
20-250 VAC	20	≤500	-25 to +70	IP 67	PBT	ABS	GN	YE	----	3	Diagram 3
10-65 VDC	100	≤200	-25 to +70	IP 67	PBT	ABS	GN	YE	----	1	
10-65 VDC	100	≤200	-25 to +70	IP 67	PBT	ABS	GN	YE	----	2	
20-250 VAC	20	≤500	-25 to +70	IP 67	PBT	ABS	GN	YE	----	3	

WIRING DIAGRAMS



OUTPUT: VP4X2

SHORT-CIRCUIT AND OVERLOAD PROTECTED



SPECIFICATIONS

OPERATING VOLTAGE	10-85 VDC
RIPPLE	≤10%
DIFFERENTIAL TRAVEL (HYSTERESIS)	2-20% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤1.8 V at 200 mA
OUTPUT FUNCTION	COMPLEMENTARY OUTPUT ONE N.O., ONE N.C. (SPDT)
TTL COMPATIBLE	NO
SHORT-CIRCUIT PROTECTED	YES
TRIGGER CURRENT FOR OVERLOAD PROTECTION	≥220 mA
CONTINUOUS LOAD CURRENT	≤200 mA
LEAKAGE (OFF-STATE) CURRENT	<10μA
NO-LOAD CURRENT	6.0-12.0 mA
TIME DELAY BEFORE AVAILABILITY	≤60 ms
LOAD and WIRE CAPACITANCE	0.33 μf
POWER-ON EFFECT PROTECTION	INCORPORATED
REVERSE POLARITY PROTECTION	INCORPORATED
WIRE-BREAK PROTECTION	INCORPORATED
PROTECTION AGAINST TRANSIENTS	2 kV, 1 ms, 1 kΩ
OPERATING TEMPERATURE	-25°C to +70°C (-13°F to +158°F)
ENCLOSURE	MEETS NEMA 1, 3, 4, 6, 13 AND IEC IP67
SHOCK	30 g, 11 ms
VIBRATION	95 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)
LED FUNCTION	YELLOW: OUTPUT ENERGIZED GREEN: POWER ON
SENSING RANGE	20 mm = .787" (NOMINAL)
SWITCHING FREQUENCY	100 Hz
REPEATABILITY	<2% of NOMINAL SENSING RANGE

RELATED DOCUMENTS 1. 2. 3. 4.	3RD ANGLE PROJECTION 	THIS DRAWING IS PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.		TURCK INC High Technology Sensors and Automation Controls	
	TOLERANCES UNLESS OTHERWISE SPECIFIED .X ±0.02 .XX ±0.01 .XXX ±0.005 ANGLES ±1° ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY	CRFT	SNW	DATE	9/30/87
		USCR		SCALE	NONE
		UNIT OF MEASUREMENT INCH [MILLIMETER] DO NOT SCALE THIS DRAWING		DESCRIPTION BC20-K405R-VP4X2 W/M16X1.5	
FINISH		IDENTIFICATION NO. M2510000			REV C
			FILE: M2510000		SHEET 1 OF 1

C	UPDATE PG 8 TO M16X1.5 CONNECTOR	RDS	11/18/04	12311
REV	DESCRIPTION	BY	DATE	EDD NO.