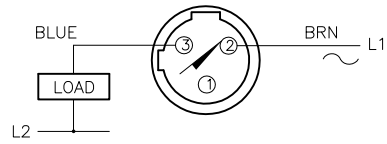
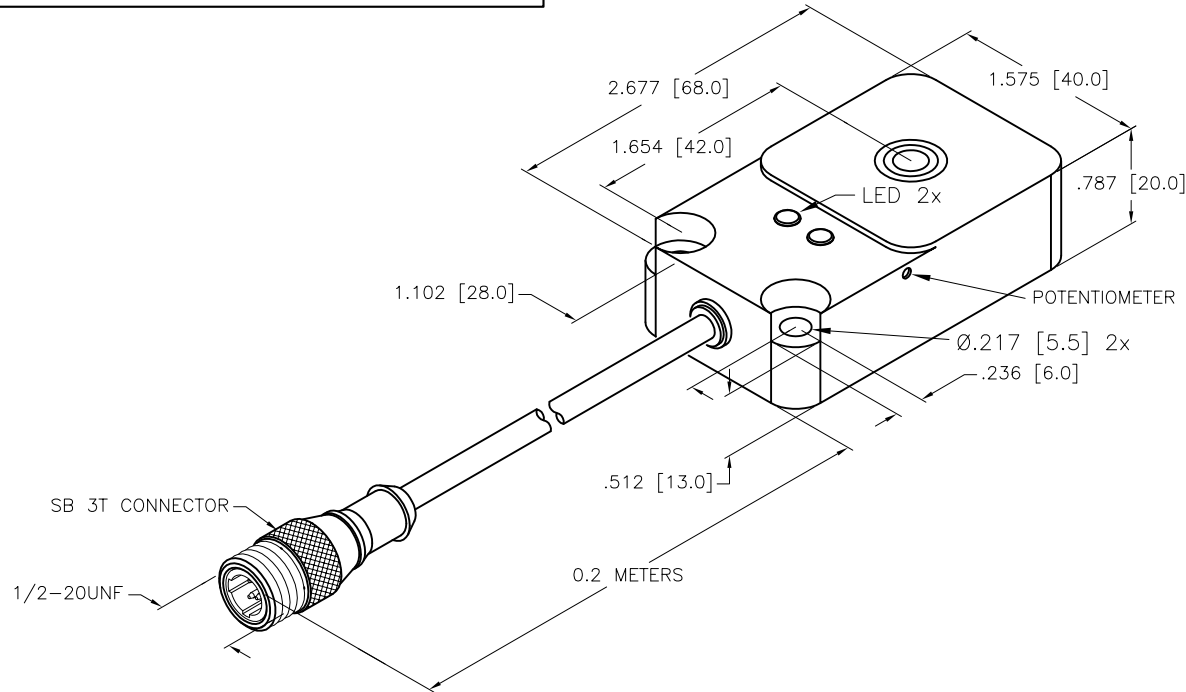


WIRING DIAGRAM



WARNING: NO SHORT-CIRCUIT PROTECTION
ALWAYS WIRE A LOAD IN SERIES WITH THE SENSOR.



SPECIFICATIONS

OPERATING VOLTAGE	20–250 VAC
LINE FREQUENCY	40–60 Hz
HYSTERESIS	2–20% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤ 7.0 V at 500 mA
OUTPUT FUNCTION –AZ	NORMALLY OPEN 2-WIRE AC SELF-CONTAINED
SHORT-CIRCUIT PROTECTED	NO
CONTINUOUS LOAD CURRENT	≤ 500 mA
RESIDUAL CURRENT	≤ 1.7 mA
MINIMUM LOAD CURRENT	≥ 5.0 mA
IN-RUSH CURRENT	≤ 8.0 A (≤ 10 ms/5% DUTY CYCLE)
TIME DELAY BEFORE AVAILABILITY	≤ 60 ms
POWER-ON EFFECT PROTECTION	Per IEC 947–5–2
PROTECTION AGAINST TRANSIENTS	5 kV, 10ms, 10 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	55 Hz, 1 mm AMPLITUDE (3 PLANES)
LED FUNCTION	GREEN: POWER ON RED: OUTPUT ENERGIZED
SENSING RANGE	20 mm = .787" (NOMINAL)
SWITCHING FREQUENCY	20 Hz
REPEATABILITY	≤ 2% OF RATED OPERATING DISTANCE
CABLE OUTER JACKET MATERIAL	PVC

SOURCE DRAWING - FOR REFERENCE ONLY

RELATED DOCUMENTS		3RD ANGLE PROJECTION		THIS DRAWING IS CONFIDENTIAL AND THE PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.		3000 CAMPUS DRIVE MINNEAPOLIS, MN 55441 1-800-544-7769 (763) 553-7300 (763) 553-0708 fax www.turck.us	
1. 2. 3. 4.		MATERIAL PBT-GF30-VO PLASTIC HOUSING		DRFT RDS APVD		DATE 09/14/11 SCALE 1=1.3	
FINISH		ALL DIMENSIONS DISPLAYED ON THIS DRAWING ARE FOR REFERENCE ONLY		UNIT OF MEASUREMENT INCH [MILLIMETER]		DESCRIPTION BC20-Q20-AZ3X2-0.2M-SB3T	
		CONTACT TURCK FOR MORE INFORMATION		DO NOT SCALE THIS DRAWING		IDENTIFICATION NO. 4352090	
B UPDATE ID NUMBER PER HARMONIZATION PROJECT		CBM 11/06/17				REV B	
REV DESCRIPTION		BY DATE ECO NO.				FILE: 4352090 SHEET 1 OF 1	