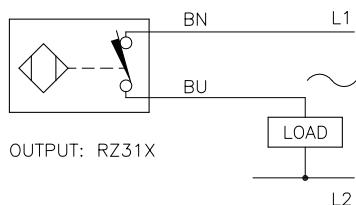
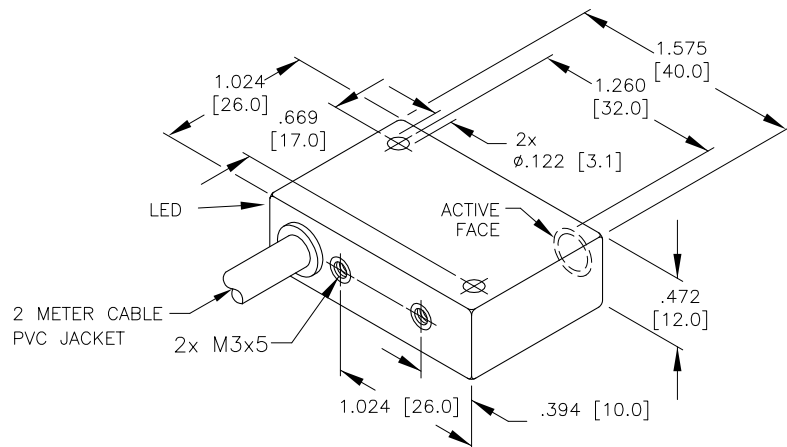


WIRING DIAGRAM



OUTPUT: RZ31X

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

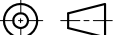


SPECIFICATIONS

OPERATING VOLTAGE	35–250 VAC
LINE FREQUENCY	40–60 Hz
HYSTERESIS (DIFFERENTIAL TRAVEL)	3–15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤ 11.0 V at 100 mA
OUTPUT FUNCTION –RZ	NORMALLY CLOSED 2-WIRE AC SELF-CONTAINED
SHORT-CIRCUIT PROTECTED	NO
CONTINUOUS LOAD CURRENT	≤ 100 mA
OFF-STATE (LEAKAGE) CURRENT	≤ 1.7 mA
MINIMUM LOAD CURRENT	≥ 5.0 mA
INRUSH CURRENT	≤ 1.0 A(≤10 ms/5 Hz)
TIME DELAY BEFORE AVAILABILITY	≤ 25 ms
POWER-ON EFFECT PROTECTION	INCORPORATED
PROTECTION AGAINST TRANSIENTS	5 kV, 10 ms, 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 (IN ALL 3 PLANES)
LED FUNCTION	RED: OUTPUT ENERGIZED
SENSING RANGE	2 mm = .079" (NOMINAL)
SWITCHING FREQUENCY	20 Hz
REPEATABILITY	≤ 2% of RATED OPERATING DISTANCE
EMBEDDABLE (SHIELDED)	YES

NOTES:

1. REAR MOUNTING HOLES ARE M3x0.5 THREAD (2 PLACES).

RELATED DOCUMENTS		3RD ANGLE PROJECTION		<div>THIS DRAWING IS PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.</div> <div>TURCK inc <i>High Technology Sensors and Automation Controls</i></div>		<div>3000 CAMPUS DRIVE MINNEAPOLIS, MN 55441 1-800-544-7769 (763) 553-7300 (763) 553-0708 fax turck.com</div>			
1. 2. 3. 4.									
MATERIAL PBT-GF30-VO PLASTIC		ALL DIMENSIONS DISPLAYED ON THIS DRAWING ARE FOR REFERENCE ONLY		DRFT GMB		DATE 11/21/89		DESCRIPTION Bi2-Q12-RZ31X	
FINISH				DSGN		SCALE NONE			
		CONTACT TURCK FOR MORE INFORMATION		UNIT OF MEASUREMENT INCH [MILLIMETER] DO NOT SCALE THIS DRAWING				IDENTIFICATION NO. M1320000	
				FILE: M1320000				SHEET 1 OF 1	

B	UPDATE TO CURRENT TITLEBLOCK	RDS	07/16/02	5504
REV	DESCRIPTION	BY	DATE	ECO NO.