

WIRING DIAGRAM

RED/WHT  
RED L1  
YEL/GRN  
LOAD  
L2  
OUTPUT: AZ33X

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

LOCKNUT LN-M12

M12x1  
.768 19.5  
.669 17.0  
.157 4.0

M12x1  
4-WAY LED  
1/2-20UNF  
1.969 [50.0]  
2.795 [71.0]  
.394 [10.0]

SPECIFICATIONS

OPERATING VOLTAGE	20-250 VAC/10-300 VDC
LINE FREQUENCY	40-60 Hz
DIFFERENTIAL TRAVEL (HYSTERSIS)	3-15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤11.0 V at 200 mA
OUTPUT FUNCTION -AZ	NORMALLY OPEN 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	≤8 ms
POWER-ON EFFECT PROTECTION	INCORPORATED
PROTECTION AGAINST TRANSIENTS	EN 60947-5-2
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
RATED OPERATING DISTANCE(Sn)	4 mm = .157" (NOMINAL)
SWITCHING FREQUENCY	20 Hz
REPEATABILITY	≤2% of RATED OPERATING DISTANCE
EMBEDDABLE (SHIELDED)	NO
MATING PLUGS/CABLES	3-PIN "MICROFAST" CONSTRUCTION

NOTES:

1. "/S34" DESIGNATES WELD FIELD IMMUNITY. SENSOR IS SUITABLE FOR USE ON RESISTANCE WELDING MACHINES.

2. MATERIALS:

PTFE COATED BRASS BARREL.  
CHROME PLATED BRASS CONNECTOR.  
PTFE COATED BRASS LOCKNUTS.  
SILVER CHROMATED STEEL LOCKWASHERS.  
PTFE COATED PA 12-GF30 PLASTIC SENSING FACE.

RELATED DOCUMENTS

1.  
2.  
3.  
4.

MATERIAL  
SEE NOTE 2

FINISH

3RD ANGLE PROJECTION

ALL DIMENSIONS DISPLAYED ON THIS DRAWING ARE FOR REFERENCE ONLY

CONTACT TURCK FOR MORE INFORMATION

THIS DRAWING IS CONFIDENTIAL AND THE PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.

DRFT IK  
APVD

UNIT OF MEASUREMENT  
INCH [ MILLIMETER ]

DO NOT SCALE THIS DRAWING

3000 CAMPUS DRIVE  
MINNEAPOLIS, MN 55441  
1-800-544-7769  
(763) 553-7300  
(763) 553-0708 fax  
www.turck.us

DESCRIPTION  
NI4-GT12-AZ33X-B3131/S34

IDENTIFICATION NO.  
1304292

REV  
H

FILE: 1304292

SHEET 1 OF 1

H	UPDATE ID NUMBER PER HARMONIZATION PROJECT	CBM	11/15/17	
REV	DESCRIPTION	BY	DATE	ECO. NO.