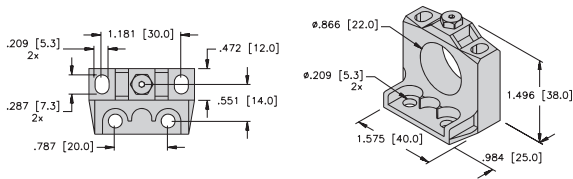


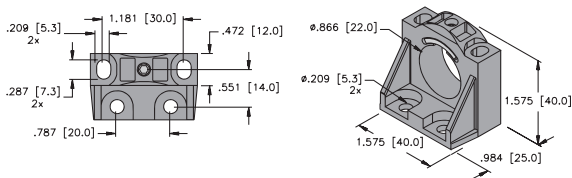
Inductive
Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
CK40 - Embeddable/Nonembeddable, minifast® Connector 	Bi15U-CK40-ADZ30X2-B1131 W/BS 2.1	M4280090	Uprox	•	15	2-Wire AC/DC Short-Circuit Protected
	Ni25U-CK40-ADZ30X2-B1131 W/BS 2.1	M4280290	Uprox		25	
	Ni35U-CK40-ADZ30X2-B1131 W/BS 4	M4280410	Uprox		35	
	Bi15-CK40-ADZ30X2-B1131/S34 W/BS 2.1	M4244090	WFI	•	15	2-Wire AC/DC Short-Circuit Protected
	Bi15-CK40-AZ3X2-B1131 W/BS 2.1	M1335091		•	15	2-Wire AC/DC
	Ni20-CK40-AZ3X2-B1131 W/BS 2.1	M1335291			20	
CK40 - Embeddable/Nonembeddable, microfast® Connector 	Bi15U-CK40-ADZ30X2-B3131 W/BS 2.1	M4280091	Uprox	•	15	2-Wire AC/DC Short-Circuit Protected
	Ni25U-CK40-ADZ30X2-B3131 W/BS 2.1	M4280291	Uprox		25	
	Ni35U-CK40-ADZ30X2-B3131 W/BS 4	M4280430	Uprox		35	
	Bi15-CK40-ADZ30X2-B3131/S34 W/BS 2.1	M4244290	WFI	•	15	2-Wire AC/DC Short-Circuit Protected
	Bi15-CK40-AZ3X2-B3131 W/BS 2.1	M1335095		•	15	2-Wire AC/DC
	Ni20-CK40-AZ3X2-B3131 W/BS 2.1	M1335290			20	

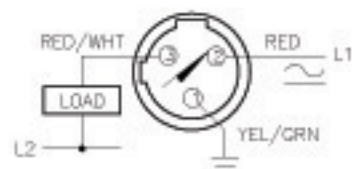


BS 2.1 Mounting Bracket



BS 4 Mounting Bracket

WIRING DIAGRAM



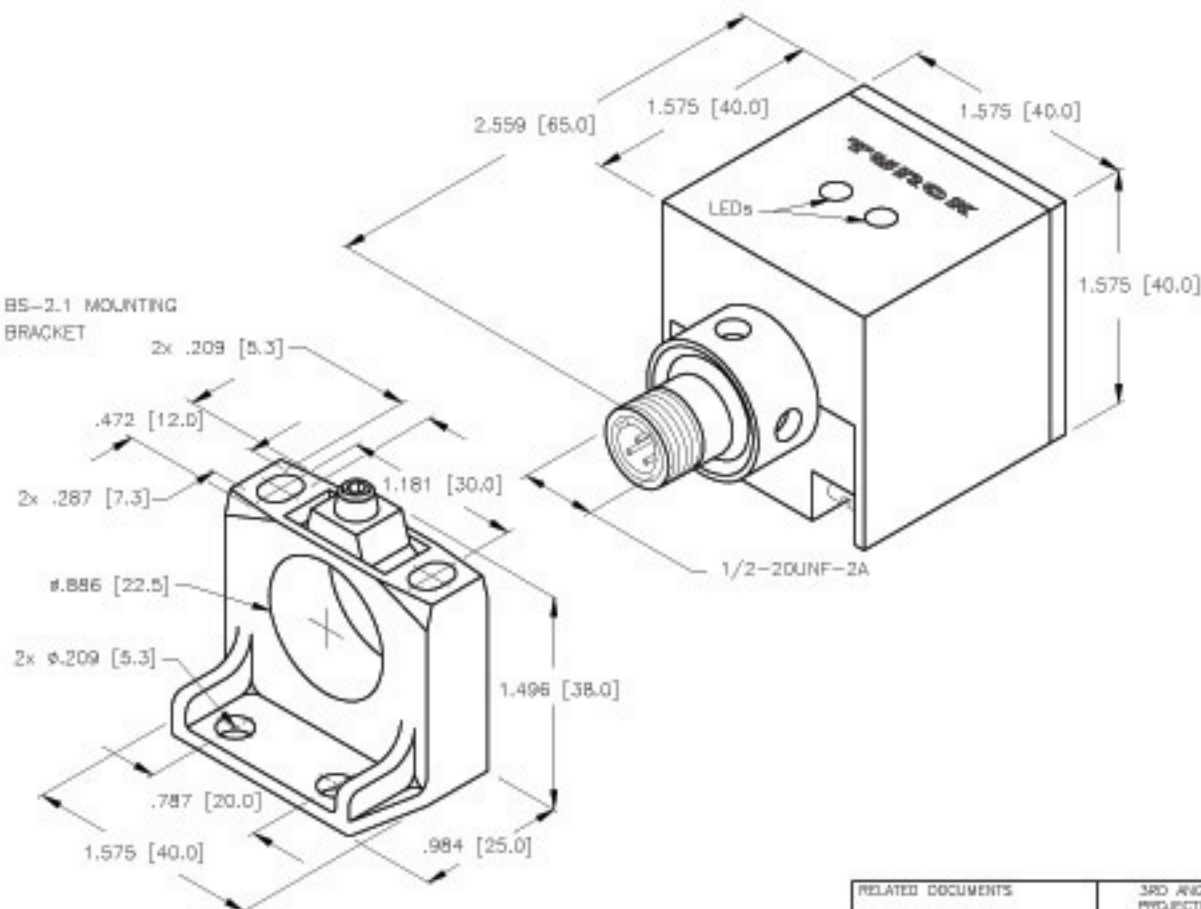
OUTPUT: AZ3X2

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

SPECIFICATIONS

OPERATING VOLTAGE	20-250 VAC/10-300 VDC
LINE FREQUENCY	40-60 Hz
DIFFERENTIAL TRAVEL (HYSTERESIS)	3-15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤ 7.0 V at 500 mA
OUTPUT FUNCTION	NORMALLY OPEN, 2-WIRE, AC/DC, SELF-CONTAINED
SHORT-CIRCUIT PROTECTED	NO
CONTINUOUS LOAD CURRENT	≤ 400 mA AC/≤ 300 mA DC
MAX. OFF-STATE CURRENT	≤ 1.7 mA
MAX. LOAD CURRENT	≥ 5.0 mA
INRUSH CURRENT	≤ 8.0 A (≤ 10 ms/5 Hz)
TIME DELAY BEFORE AVAILABILITY	≤ 80 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	GREEN: POWER ON RED: OUTPUT ENERGIZED
RATED OPERATING DISTANCE(Sn)	20 mm = .787" (NOMINAL)
SWITCHING FREQUENCY	20 Hz
MIN. REPEAT ACCURACY	≤ 2%
EMBEDDABLE (SHIELDED)	NO
MATING PLUGS/CABLES	3-PIN 'MICROFAST' CONSTRUCTION

BS-2.1 MOUNTING
BRACKET



SOURCE DRAWING - FOR REFERENCE ONLY

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	
		DATE 02/24/05	DESCRIPTION NI20-CK40-AZ3X2-B3131 W/BS 2.1	IDENTIFICATION NO. M1335290	
MATERIAL PBT-GF30-VO PLASTIC HOUSING	TOLERANCES UNLESS OTHERWISE SPECIFIED .X ±0.02 .XX ±0.01 .XXX ±0.005 ANGLES ±1° ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY	DRAWN JR	SCALE NONE	REV A	
FINISH	UNIT OF MEASUREMENT INCH [MILLIMETER]	DO NOT SCALE THIS DRAWING		FILE: M1335290	
A DRAWING RELEASE		RDS	02/24/05	SHEET 1 OF 1	
REV DESCRIPTION		BY	DATE	EDD NO.	