

TURCK

Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output
30 mm - Embeddable, Potted-In Cable 	BC10-S30-VN4X	M2506000	Comp. Outputs	10	15	4-Wire DC NPN
	BCF10-S30-VN4X	M2506011	Noise Immune and Comp. Outputs	10	15	
	BC10-S30-VP4X	M2506110	Comp. Outputs	10	15	4-Wire DC PNP
	BCF10-S30-VP4X	M2506111	Noise Immune and Comp. Outputs	10	15	
	BC10-S30-AZ3X	M2310700		10	15	2-Wire AC
	BCF10-S30-AZ3X	M2506015	Noise Immune	10	15	
30 mm - Embeddable, Potted-In Cable 	BC10-PT30-VN4X2	M2507020	Chemical Resistant and Comp. Outputs	10	15	4-Wire DC NPN
	BC10-PT30-VP4X2	M2507010	Chemical Resistant and Comp. Outputs	10	15	4-Wire DC PNP
	BC10-PT30-AZ3X	M2350001	Chemical Resistant	10	15	2-Wire AC
	BC10-PT30-Y0X	M2020000	Chemical Resistant	10	15	2-Wire DC NAMUR
30 mm - Embeddable, Terminal Chamber 	BC10-P30SR-VN4X2 W/M16X1.5	M2505100	Comp. Outputs	10	15	4-Wire DC NPN
	BC10-P30SR-VP4X2 W/M16X1.5	M2505000	Comp. Outputs	10	15	4-Wire DC PNP
	BC10-P30SR-VP4X2/S359 2M	M2505001	Comp. Outputs	10	15	
	BC10-P30SR-FZ3X2 W/M16X1.5	M2310400	Prog. Outputs	10	15	2-Wire AC

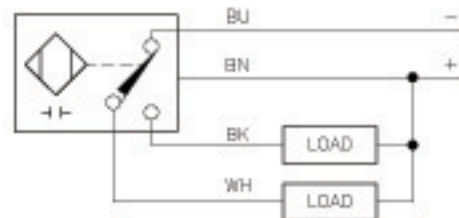
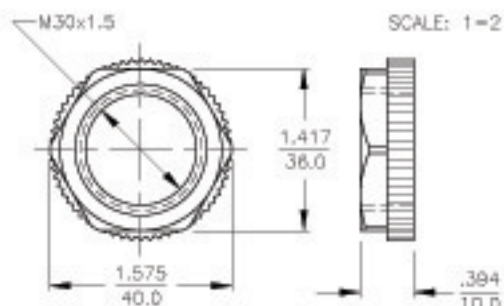
"S359" designates Capacitive sensor with external potentiometer located on 2 meter cable.

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing	End Cap	Power LED	Output LED	Cable Length/ Material	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP 67	PA 12	PA 66	N/A	YE	2M/PVC	1	Diagram 1
	100	≤200	-25 to +70	IP 67	PA 12	PA 66	N/A	YE	2M/PVC	1	
10-65 VDC	100	≤200	-25 to +70	IP 67	PA 12	PA 66	N/A	YE	2M/PVC	2	Diagram 2
	100	≤200	-25 to +70	IP 67	PA 12	PA 66	N/A	YE	2M/PVC	2	
20-250 VAC	20	≤500	-25 to +70	IP 67	PA 12	PA 66	N/A	YE	2M/PVC	3	Diagram 3
	20	≤500	-25 to +70	IP 67	PA 12	PA 66	N/A	YE	2M/PVC	3	
5-30 VDC	100	Remote	-25 to +70	IP 67	PA 12	PA 66	N/A	YE	2M/PVC	4	Diagram 4
10-65 VDC	100	≤200	-25 to +70	IP 67	PVDF	PVDF	GN	YE	2M/PVDF	1	
10-65 VDC	100	≤200	-25 to +70	IP 67	PVDF	PVDF	GN	YE	2M/PVDF	2	Diagram 5
20-250 VAC	20	≤500	-25 to +70	IP 67	PVDF	PVDF	N/A	YE	2M/PVDF	3	
5-30 VDC	100	Remote	-25 to +70	IP 67	PVDF	PVDF	N/A	YE	2M/PVDF	4	Diagram 6
10-65 VDC	100	≤200	-25 to +70	IP 67	ABS	ABS	GN	YE	----	5	
10-65 VDC	100	≤200	-25 to +70	IP 67	ABS	ABS	GN	YE	----	6	Diagram 6
	100	≤200	-25 to +70	IP 67	ABS	ABS	GN	YE	----	6	
20-250 VAC	20	≤500	-25 to +70	IP 67	ABS	ABS	GN	YE	----	3	Diagram 6

LOCKNUT LN-P30

WIRING DIAGRAM

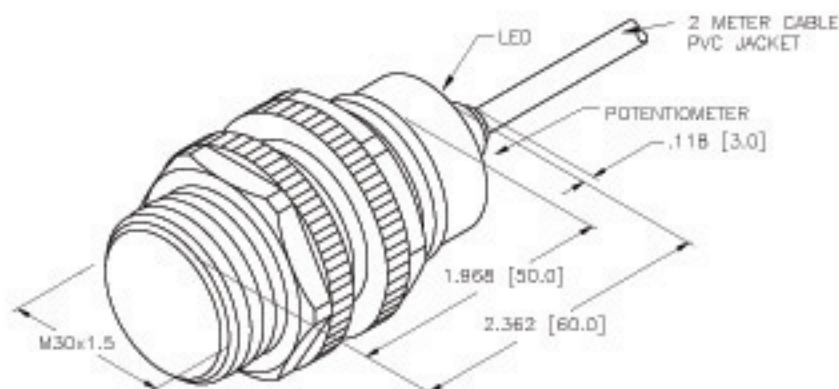
SPECIFICATIONS



OUTPUT: VN4X

SHORT-CIRCUIT AND OVERLOAD PROTECTED

RATED OPERATING DISTANCE	10mm = .394" (FLUSH MOUNTING)
RATED OPERATING DISTANCE	15mm = .591" (NON-FLUSH MOUNTING)
REPEAT ACCURACY	≤ 2%
TEMPERATURE DRIFT	≤ ± 20%
HYSTERESIS	2-20%
AMBIENT TEMPERATURE	-25°C to +70°C (-13°F to +158°F)
OPERATING VOLTAGE	10-65 VDC
RESIDUAL RIPPLE	≤ 10%
DC RATED OPERATIONAL CURRENT	≤ 200 mA
NO-LOAD CURRENT	≤ 15 mA
RESIDUAL CURRENT	≤ 0.1 mA
RATED INSULATION VOLTAGE	≤ 0.5 kV
OUTPUT FUNCTION	4-WIRE, CHANGE-OVER, NPN
SHORT-CIRCUIT PROTECTION	YES
MAX. VOLTAGE DROP	≤ 1.8 V
WIRE BREAK PROTECTION	INCORPORATED
REVERSE POLARITY PROTECTION	INCORPORATED
HOUSING MATERIAL	PLASTIC, PA12-GF30
ACTIVE FACE MATERIAL	PLASTIC, PA12-GF30
CABLE	#5.2, LIFY, PVC,
VIBRATION RESISTANCE	55 Hz (IN ALL 3 PLANES)
SHOCK RESISTANCE	30 g, 11 ms
PROTECTION DEGREE	IP67
SWITCHING STATUS INDICATION	LED: YELLOW



RELATED DOCUMENTS

- 1.
- 2.
- 3.
- 4.

MATERIAL

SEE NOTES

FINISH

SEE NOTES

3RD ANGLE PROJECTION



TOLERANCES UNLESS OTHERWISE SPECIFIED

.X ±0.02
.XX ±0.01
.XXX ±0.005
ANGLES ±1°

ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY

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DATE 05/22/02
SCALE 1=1.3

UNIT OF MEASUREMENT
INCH [MILLIMETER]

DO NOT SCALE THIS DRAWING

TURCK INC
High Technology Sensors and Automation Controls

DESCRIPTION
BCF10-S30-VN4X

IDENTIFICATION NO.
M2506011

FILE: M2506011

REV
B

SHEET 1 OF 1

B	UPDATE WIRING DIAGRAM, BN TO BU	JB	02/10/03	10145
REV	DESCRIPTION	BY	DATE	EDD NO.