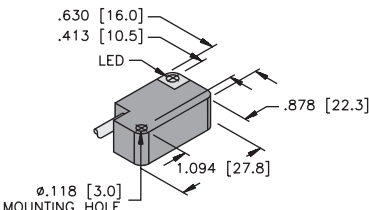
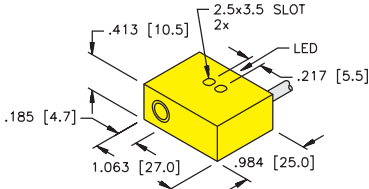
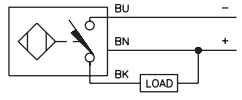
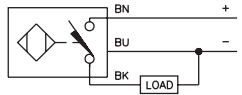
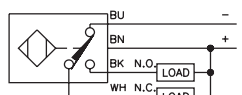
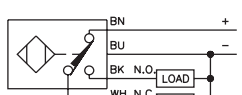
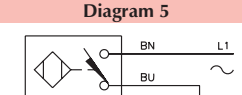
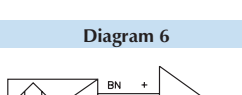
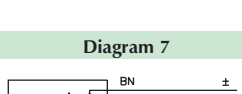





# Inductive Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
<b>10 mm - Embeddable, Potted-In Cable</b>  	Bi 2-Q10S-AN6X	S1619310		•	2	3-Wire DC NPN
	Bi 2-Q10S-AP6X	S1609360		•	2	3-Wire DC PNP
	Bi 2-Q10S-VN6X	S1609341	Comp. Outputs	•	2	4-Wire DC NPN
	Bi 2-Q10S-VP6X	S1609340	Comp. Outputs	•	2	4-Wire DC PNP
	Bi 2-Q10S-AZ31X	S1309100		•	2	2-Wire AC/DC
	Bi 2-Q10S-Y0X	S4012130		•	2	2-Wire NAMUR
	Bi 2-Q10S-Y1X	S4012130		•	2	
<b>11 mm - Embeddable/Nonembeddable, Potted-In Cable</b>  	Bi 2-Q11S-AD4X	M4405040		•	2	2-Wire DC
	Bi 2-Q11S-AN4X	M4550101		•	2	3-Wire DC NPN
	Bi 2-Q11S-AP4X	M4550100		•	2	3-Wire DC PNP
	Ni 4-Q11S-AP4X	M4550110			4	
Ni 4-Q11S-AZ31X	M4348000				4	2-Wire AC/DC

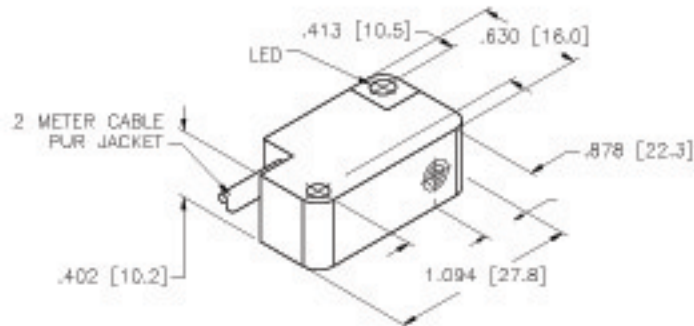
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord, Cable Length/Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	2000	≤150	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	1	<b>Diagram 1</b> 
10-30 VDC	2000	≤150	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	2	<b>Diagram 2</b> 
10-30 VDC	2000	≤150	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	3	<b>Diagram 3</b> 
10-30 VDC	2000	≤150	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	4	<b>Diagram 4</b> 
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	PA 12	PA 12	N/A	RD	2M/PVC	5	<b>Diagram 5</b> 
5-30 VDC	1000	Remote	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	6	<b>Diagram 6</b> 
	1000	Remote	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	6	
10-65 VDC	2000	≤100	-25 to +70	IP 67	PBT	PBT	N/A	YE	2M/PVC	7	<b>Diagram 7</b> 
10-65 VDC	2000	≤200	-25 to +70	IP 67	PBT	PBT	N/A	YE	2M/PVC	1	<b>Diagram 8</b> 
10-65 VDC	2000	≤200	-25 to +70	IP 67	PBT	PBT	N/A	YE	2M/PVC	2	<b>Diagram 9</b> 
	2000	≤200	-25 to +70	IP 67	PBT	PBT	N/A	YE	2M/PVC	2	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	PBT	PBT	N/A	YE	2M/PVC	5	<b>Diagram 10</b> 

WIRING DIAGRAM



OUTPUT: AP6X

SHORT-CIRCUIT AND OVERLOAD PROTECTED



SPECIFICATIONS

RATED OPERATING DISTANCE	2mm = .079" (NOMINAL)
MOUNTING MODE	FLUSH
TEMPERATURE DRIFT	≤ ±10%
HYSTERESIS (SWITCHING DISTANCE)	3-15%
MIN. REPEAT ACCURACY	≤ 2%
OPERATING TEMPERATURE	-25°C to +70°C (-13°F to +158°F)
RATED OPERATIONAL VOLTAGE	10-30 VDC
MAX. RIPPLE	≤ 10%
RATED OPERATIONAL CURRENT	≤ 150 mA
NO-LOAD CURRENT	≤ 15 mA
MAX. OFF-STATE CURRENT	≤ 0.1 mA
RATED INSULATION VOLTAGE	≤ 0.5 kV
SHORT-CIRCUIT PROTECTION	YES, CYCLIC
MAX. VOLTAGE DROP	≤ 1.8 V
WIRE BREAKAGE PROTECTION	INCORPORATED
REVERSE POLARITY PROTECTION	INCORPORATED
OUTPUT FUNCTION	3-WIRE, NORMALLY OPEN, PNP
MAX. SWITCHING FREQUENCY	≤ 2 kHz
HOUSING MATERIAL	PLASTIC, PA12-CF20
ACTIVE FACE	PLASTIC, PA12-GP20
CABLE	#3.0, L18Y-11Y, PUR, 2 METER LENGTH
VIBRATION RESISTANCE	85 Hz, 1 mm AMPITUDE (IN ALL 3 PLANES)
SHOCK RESISTANCE	30 g, 11 ms
DEGREE OF PROTECTION	IP67
SWITCHING STATUS INDICATION	LED, YELLOW

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.		<b>TURCK INC</b> High Technology Sensors and Automation Controls	
	TOLERANCES UNLESS OTHERWISE SPECIFIED .X ±0.02 .XX ±0.01 .XXX ±0.005 ANGLES ±1° ALL MILLIMETER DIMENSIONS ARE REFERENCE ONLY	DRAFT RDS DATE 12/28/04	DESCRIPTION BI 2-Q10S-AP6X		
	FINISH	UNIT OF MEASUREMENT <b>INCH [ MILLIMETER ]</b>	IDENTIFICATION NO. S1609360	REV B	
	DO NOT SCALE THIS DRAWING		FILE: S1609360	SHEET 1 OF 1	

B	UPDATE CABLE SPECS	RDS	10/23/07	19207
REV	DESCRIPTION	BY	DATE	EDD NO.