


# TURCK

## Inductive Sensors - Barrels


### G Barrel



### Barrel, Metal with Quick Disconnect Full Threading

3-Wire DC  **minifast**<sup>®</sup>  
 10-30 VDC, Short-Circuit and Overload Protected  
 Normally Open\*, NPN (Sinking) or PNP (Sourcing)

### Sensor Selection

Part Number	Embeddable	Rated Operating Distance (mm)	Barrel Diameter (mm)	NPN (Sinking)	PNP (Sourcing)	Drawing #	Wiring Diagram	# of LEDs	Weld Field Immune (S34)	Switching Frequency (Hz)	ID Number	Connection
Bi 5-G18-AN6X-B1341	•	5	18	•		1	A	1		1000	T4695200	 <b>minifast</b> <b>Mating Cordsets</b> RKM 40-2M (2 meter) For other styles see Section H or consult "Cordsets" catalog
Bi 10-G30-AN6X-B1141	•	10	30	•		3	A	1		500	T4695400	
Ni 10-G18-AN6X-B1341		10	18	•		2	A	1		1000	T4695300	
Ni 15-G30-AN6X-B1141		15	30	•		4	A	1		500	T4695500	
Bi 5-G18-AP6X-B1341	•	5	18		•	1	B	1		1000	T4696300	
Bi 10-G30-AP6X-B1141	•	10	30		•	3	B	1		500	T4696500	
Ni 10-G18-AP6X-B1341		10	18		•	2	B	1		1000	T4696400	
Ni 15-G30-AP6X-B1141		15	30		•	4	B	1		500	T4696600	

\* Normally Closed versions available upon request, consult factory.

### Barrel Length Options

For applications requiring longer barrel lengths, consult factory on availability of the following part numbers with special lengths:  
 Bi 5-G18-AN(P)6X-B1341 with 50 mm threading.

### Material

Connector: Chrome Plated Brass  
 Barrel/Locknuts: Chrome Plated Brass  
 Sensing Face: PA 12-GF30 Plastic

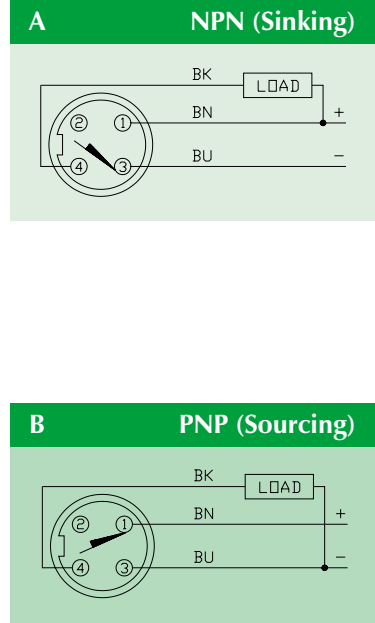
### Accessories

Accessories and mounting devices can be found in Section J.

## Specifications

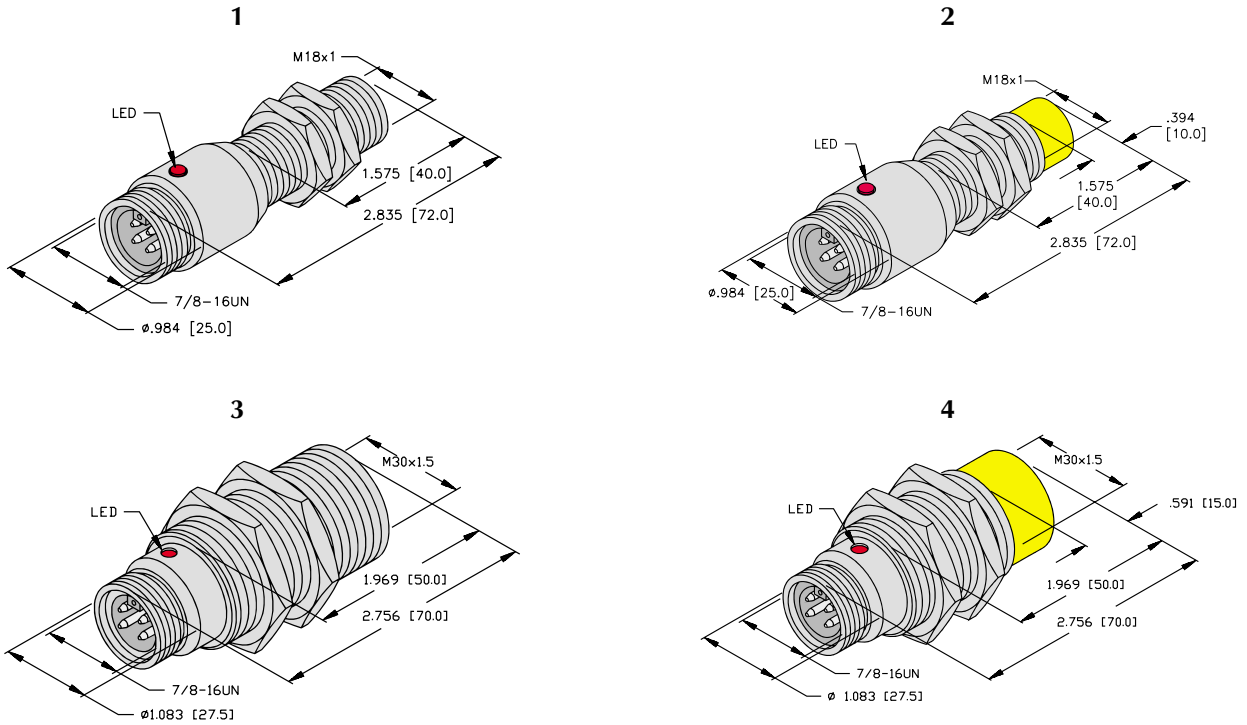
Ripple . . . . .	≤10%
Differential Travel (Hysteresis) . . . . .	3-15% (5% typical)
Voltage Drop Across Conducting Sensor . . . . .	≤1.8 V at 200 mA
Trigger Current for Overload Protection . . . . .	≥220 mA
Continuous Load Current . . . . .	≤200 mA
Off-State (Leakage) Current . . . . .	<10 μA
No-Load Current . . . . .	5.5-9.5 mA
Time Delay Before Availability . . . . .	≤8 ms
Power-On Effect . . . . .	Per IEC 947-5-2
Reverse Polarity Protection . . . . .	Incorporated
Wire-Break Protection . . . . .	Incorporated
Transient Protection . . . . .	Per 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 IP 67
Shock . . . . .	30 g, 11 ms
Vibration . . . . .	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability . . . . .	≤2% of Rated Operating Distance
LED On . . . . .	Output Energized

## Wiring Diagrams



Barrels

## Dimensions




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Bi 10-G30-AN6X-B1441	•	10	30	•		3	A	1		500	T4695800	
Ni 10-G18-AN6X-B1441		10	18	•		2	A	1		1000	T4695700	
Ni 15-G30-AN6X-B1441		15	30	•		4	A	1		500	T4695590	
Bi 5-G18-AP6X-B1441	•	5	18		•	1	B	1		1000	T4696700	
Bi 10-G30-AP6X-B1441	•	10	30		•	3	B	1		500	T4696900	
Ni 10-G18-AP6X-B1441		10	18		•	2	B	1		1000	T4696800	
Ni 15-G30-AP6X-B1441		15	30		•	4	B	1		500	T4697000	

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Connector: Chrome Plated Brass  
 Barrel: Chrome Plated Brass  
 Sensing Face: PA 12-GF30 Plastic

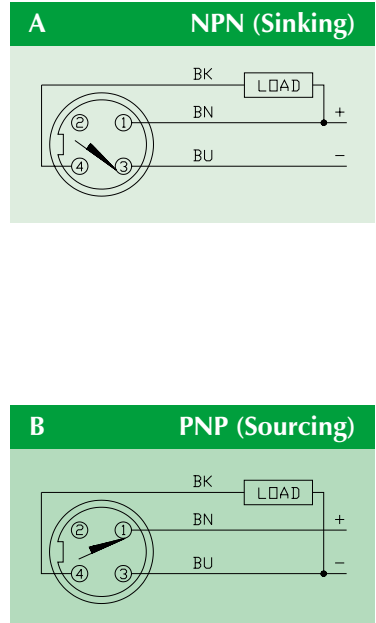
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No-Load Current . . . . .	5.5-9.5 mA
Time Delay Before Availability . . . . .	≤8 ms
Power-On Effect . . . . .	Per IEC 947-5-2
Reverse Polarity Protection . . . . .	Incorporated
Wire-Break Protection . . . . .	Incorporated
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Operating Temperature . . . . .	-25°C to +70°C (-13°F to +158°F)
Enclosure . . . . .	Meets NEMA 1,3,4,6,13 and IEC IP 67
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