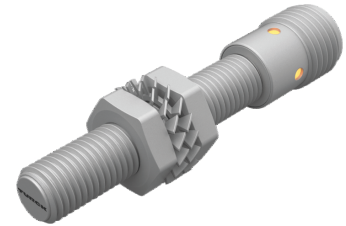
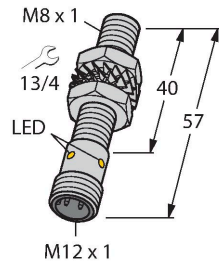


# BI2U-EGT08-AP6X-H1341

## Inductive Sensor – With Extended Switching Distance



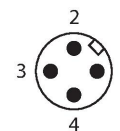
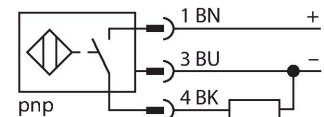
### Technical data

Type	BI2U-EGT08-AP6X-H1341
ID	4602071
<b>General data</b>	
Rated switching distance	2 mm
Mounting conditions	Flush
Secured operating distance	$\leq (0.81 \times S_n)$ mm
Repeat accuracy	$\leq 2 \%$ of full scale
Temperature drift	$\leq \pm 10 \%$
	$\leq \pm 20 \%, \leq -25 \text{ °C} \vee \geq +70 \text{ °C}$
Hysteresis	3...15 %
<b>Electrical data</b>	
Operating voltage $U_B$	10...30 VDC
Ripple $U_{ss}$	$\leq 10 \%$ $U_{Bmax}$
DC rated operating current $I_o$	$\leq 150 \text{ mA}$
No-load current	$\leq 15 \text{ mA}$
Residual current	$\leq 0.1 \text{ mA}$
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Cyclic
Voltage drop at $I_o$	$\leq 1.8 \text{ V}$
Wire break/reverse polarity protection	yes/Complete
Output function	3-wire, NO contact, PNP
DC field stability	200 mT
AC field stability	200 mT <sub>ss</sub>
Insulation class	□

### Features

- Threaded barrel, M8 x 1
- Stainless steel, PTFE-coated
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- Large switching distance
- High switching frequency
- Recessed mountable
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- M12 x 1 male connector

### Wiring diagram



### Functional principle

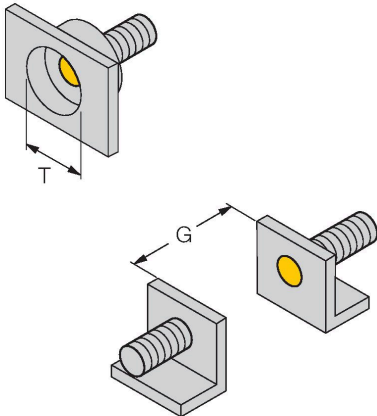
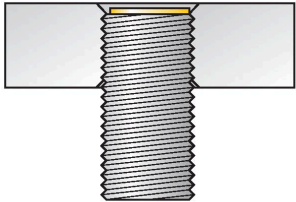
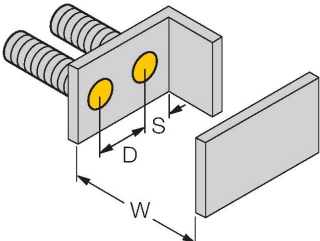
Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching

## Technical data

distances, maximum flexibility and operational reliability as well as efficient standardization.

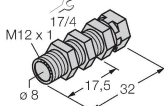
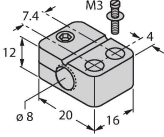
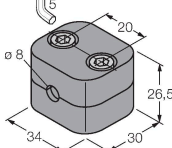
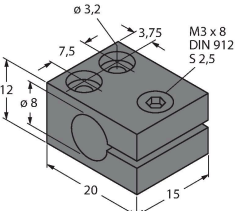
Switching frequency	1 kHz
<b>Mechanical data</b>	
Design	Threaded barrel, M8 x 1
Dimensions	57 mm
Housing material	Stainless steel, 1.4427 SO, PTFE-coated
Active area material	Plastic, PP, PTFE-coated
Max. tightening torque of housing nut	5 Nm
Electrical connection	Connector, M12 x 1
<b>Environmental conditions</b>	
Ambient temperature	-30...+85 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, Yellow

## Mounting instructions

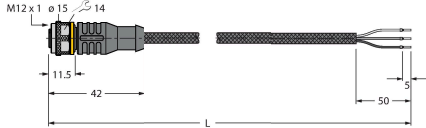
Mounting instructions/Description												
												
	<table> <tr> <td>Distance D</td><td>16 mm</td></tr> <tr> <td>Distance W</td><td>6 mm</td></tr> <tr> <td>Distance T</td><td>24 mm</td></tr> <tr> <td>Distance S</td><td>12 mm</td></tr> <tr> <td>Distance G</td><td>12 mm</td></tr> <tr> <td>Diameter active area B</td><td>Ø 8 mm</td></tr> </table>	Distance D	16 mm	Distance W	6 mm	Distance T	24 mm	Distance S	12 mm	Distance G	12 mm	Diameter active area B
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Distance T	24 mm											
Distance S	12 mm											
Distance G	12 mm											
Diameter active area B	Ø 8 mm											
												

All flush mountable uprox+ threaded barrel types are also recessed mountable. Safe operation is ensured if the sensor is screwed in by half a turn.

Accessories

QM-08	6945100	Quick-mount bracket with dead-stop, chrome-plated brass, male thread M12 x 1. Note: The switching distance of proximity switches may be reduced through the use of quick-mount brackets.	BST-08B	6947210	Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6
					
BSS-08	6901322	Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene	MBS80	69479	Mounting clamp for smooth barrel sensors; mounting block material: Anodized aluminum
					

Wiring accessories

Dimension drawing	Type	ID	
	RKC4T-2/TXL1001	6630249	Connection cable, M12 female connector, straight, 3-pin, cable length: 2 m, protective jacket material: aramid fibers, yellow; temperature peak: 200 °C