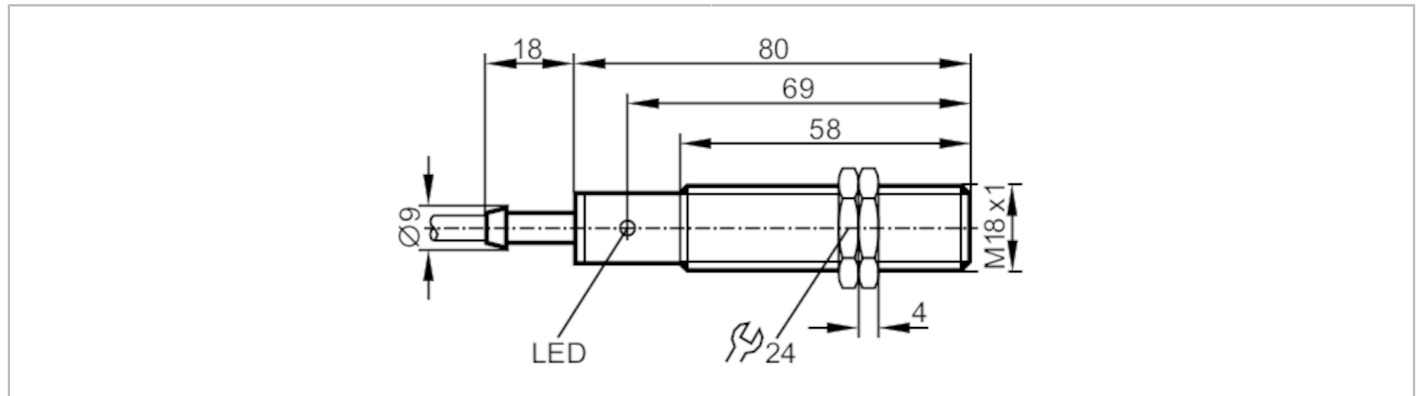


# IG0097



## Inductive sensor

IG-2005-BBOA/10M



Electrical data	
Operating voltage [V]	20...250 AC/DC
Protection class	II
Reverse polarity protection	no
Outputs	
Output function	normally closed
Max. voltage drop switching output DC [V]	6
Max. voltage drop switching output AC [V]	6.5
Minimum load current [mA]	5
Max. leakage current [mA]	2.5 (250 V AC) / 1.3 (110 V AC) / 0.8 (24 V DC)
Permanent current rating of switching output AC [mA]	250; (350 (...50 °C))
Permanent current rating of switching output DC [mA]	100
Short-time current rating of switching output [mA]	2200; (20 ms / 0,5 Hz)
Switching frequency AC [Hz]	25
Switching frequency DC [Hz]	50
Short-circuit proof	no
Overload protection	no
Detection zone	
Sensing range [mm]	5
Real sensing range $S_r$ [mm]	$5 \pm 10 \%$
Operating distance [mm]	0...4.05
Accuracy / deviations	
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis [% of $S_r$ ]	1...15
Switch point drift [% of $S_r$ ]	-10...10
Operating conditions	
Ambient temperature [°C]	-25...80
Protection	IP 67

# IG0097



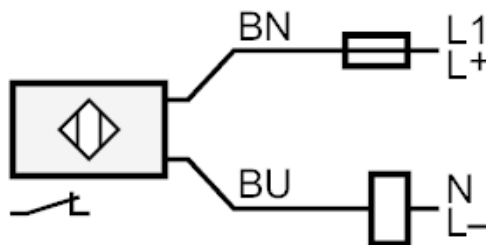
## Inductive sensor

IG-2005-BBOA/10M

Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF [years]		609
Mechanical data		
Weight [g]		448
Housing		threaded type
Mounting		flush mountable
Dimensions [mm]		M18 x 1 / L = 80
Thread designation		M18 x 1
Materials		PBT
Displays / operating elements		
Display	switching status	1 x LED, yellow
Electrical connection		
Required protection	miniature fuse to IEC60127-2 sheet 1; $\leq 2$ A; fast acting	
Accessories		
Accessories (supplied)	lock nuts: 2	
Remarks		
Remarks	Recommendation: Check the safe functioning of the unit after a short circuit.	
Pack quantity	1 pcs.	

**Electrical connection**  
Cable: 10 m, PVC; 2 x 0.5 mm<sup>2</sup>

### Connection



Note miniature fuse to IEC60127-2 sheet 1  $\leq 2$  A fast acting

Core colours :

BN = brown

BU = blue