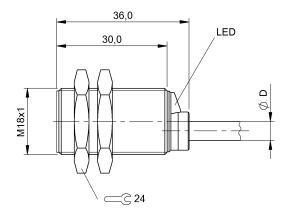
Inductive Sensors BAW M18ME-ICC50B-BP03 **Order Code: BAW001T**

BALLUFF







Adjustment indicator

no

Basic features

Approval/Conformity	CE
	UKCA
	cULus
	WEEE
Basic standard	IEC 60947-5-2
	IEC 60947-5-7

Display/Operation

Function indicator Power indicator

Electrical connection

Cable diameter D	4.60 mm
Cable length L	3 m
Conductor cross-section	0.34 mm ²
Connection type	Cable, 3.00 m, PUR
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Limit frequency –3 dB	500 Hz
Load resistance RL max.	500 Ohm
No-load current lo max. at Ue	10 mA
Operating voltage Ub	1530 VDC
Rated insulation voltage Ui	75 V DC
Rated operating voltage Ue DC	24 V
Ripple max. (% of Ue)	15 %
Slope I	4.00 mA/mm

Environmental conditions

Ambient temperature	-1070 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 mir
IP rating	IP67
Functional safety	
MTTF (40 °C)	640 a
Interface	
Analog output	Analog, current 420 mA
Output characteristic	falling on approach
Output current at SI max.	20 mA
Output current at SI min.	4 mA
Output current at Se	12 mA
Material	
Housing material	Brass, nickel-plated
Material jacket	PUR
Material sensing surface	PBT
Mechanical data	
Dimension	Ø 18 x 36 mm
Installation	for flush mounting
Size	M18x1
	25 Nm

Inductive Sensors BAW M18ME-ICC50B-BP03 Order Code: BAW001T



Range/Distance

Linearity range SI	15 mm
Measuring range	15 mm

Non-linearity max. Repeat accuracy per BWN Temperature drift max. from end value

±120 μm ±8 μm ±5.0 %

Remarks

Values referenced to axial approach of St 37 target. For other materials correction factors are applied.

Load resistance RL max. applies for Ub min. 16V.

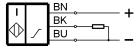
When used in Balluff clamping holders, Ua may be reduced by max. 10%.

Scattering (e.g. due to manufacturing tolerances) is described by the tolerance T at Se. This can be approximated using the formula: $T = (slmax + slmin) / 20 = \pm xx mm$.

For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Wiring Diagrams



Technical Drawings

