

IR18.D03K-F60.UA1E.7FO/B015

Inductive distance measuring sensors - high sensitivity

Article number: 11158155

overview

- 2,75 ... 3 mm
- voltage output
- external Teach-in
- connector M12
- -10 ... 60 °C
- IP 67



Technical data

general data		electrical data	
mounting type	flush	current consumption max. (no load)	15 mA
special type	linearized high sensitivity	output circuit	voltage output
measuring distance Sd	2,75 ... 3 mm	output signal	0 ... 10 VDC
sensitivity	40 V/mm (Range: 0,25 mm)	load resistance	> 4000 Ohm
resolution	< 0,00025 mm (stat.) < 0,0005 mm (dynam.)	short circuit protection	yes
repeat accuracy	< 0,001 mm	reverse polarity protection	yes
adjustment	external Teach-in	mechanical data	
teach	1-point analog, factory reset	type	cylindrical threaded
linearity error	± 5 µm	material (sensing face)	ceramic
temperature drift	± 4 % (Full Scale; +10 ... +30 °C) ± 12 % (Full Scale; -10 ... +60 °C)	housing material	steel nickel plated
Teach-Feedback	LED yellow	dimension	18 mm
electrical data		housing length	60 mm
response time (factory characteristic)	< 3 ms	connection types	connector M12
voltage supply range +Vs	12 ... 30 VDC	tightening torque max.	40 Nm
		ambient conditions	
		operating temperature	-10 ... +60 °C
		protection class	IP 67

remarks

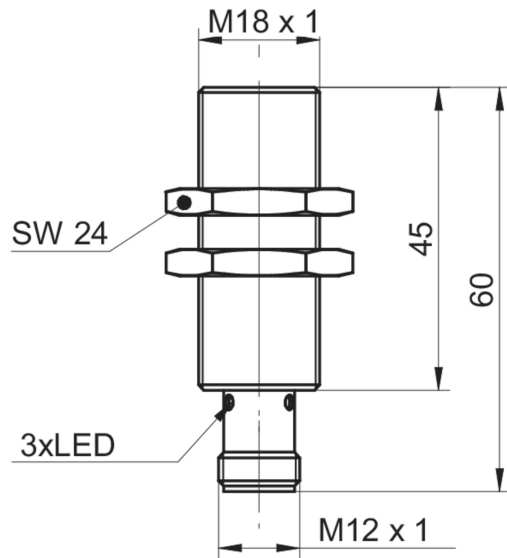
- measuring range (0,25 mm) adjustable within 0 - 3 mm
- linear analog output
- high sensitivity (other sensitivities on request)

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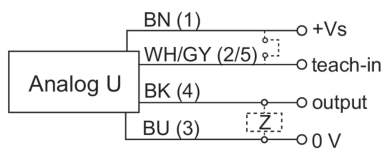
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dimension drawing



connection diagram



pin assignment

