



- **Extended temperature range**
- **Greatest possible switching distances with correction factor 1**
- **Very good magnetic and electromagnetic immunity**
- **Very high switching frequency**

Welding field resistant inductive sensors with correction factor 1 offer a unique combination of technical performance features: increased switching distances for reliable object detection, high switching frequencies for applications with high process speeds and an extended temperature range for use under various ambient conditions. A switching status LED for diagnosis functions reduces system downtime. In order to simplify integration, all housing designs are available in flush or non-flush mounting variants.

Inductive Data

Switching Distance	4 mm
Correction Factors Stainless Steel V2A/CuZn/Al	1,2/1,21/1,22
Mounting	flush
Mounting A/B/C/D in mm	0/5/12/0
Switching Hysteresis	< 15 %

Electrical Data

Supply Voltage	10...30 V DC
Current Consumption (U _b = 24 V)	< 15 mA
Switching Frequency	4200 Hz
Temperature Drift (-25 °C < T _u < 60 °C)	10 %
Temperature Drift (T _u < -25 °C, T _u > 60 °C)	20 %
Temperature Range	-40...80 °C
Switching Output Voltage Drop	< 2,5 V
Switching Output/Switching Current	200 mA
Resistant to Magnetic Fields	200 mT
Short Circuit Protection	yes
Reverse Polarity and Overload Protection	yes
Protection Class	II
Protective Insulation, Rated Voltage	50 V

Mechanical Data

Housing Material	CuZn; PTFE
Welding Field Resistant	yes
Full Encapsulation	yes
Degree of Protection	IP67
Connection	M12 × 1; 4-pin

Safety-relevant Data

MTTFd (EN ISO 13849-1)	2193,68 a
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Function

Error Indicator	yes
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PNP NO/NC antivalent



Connection Diagram No.

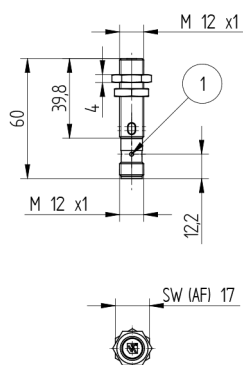
101

Suitable Connection Equipment No.

2

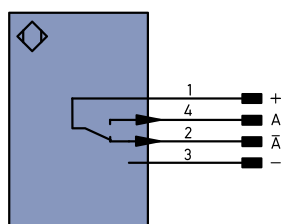
Suitable Mounting Technology No.

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1 = Switching Status Indicator
Sleeve M12x1 = 3,5 Nm

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Mounting

