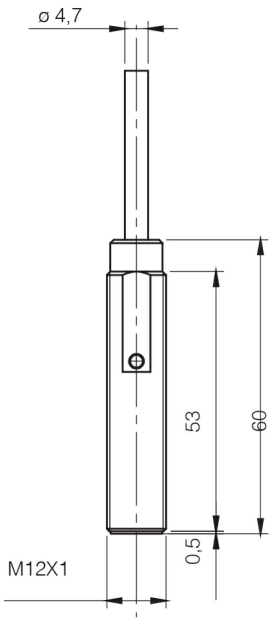
V3M1/R0-3A8F

cylindrical inductive

Indicative image



Detection properties

Nominal sensing distance	4mm
Operanting distance	0...3,2mm
Standard target	12x12mm FE360
Correction Factor	copper: 0,48 / aluminium: 0,54 / brass: 0,60 / stainless steel: 0,86
Thermal drift of Sr	< 10%
Repeat Accuracy	5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

Outputs

Output type	MOSFET
Output Function	NO (Vac) - NO/NC (Vdc)
Switching frequency	25Hz (AC) - 750Hz (DC)

Electrical data

Operating Voltage	20 - 250Vac - 50/60Hz - 20...250Vdc
Load current	600mA/150ms (AC/DC)
Leakage current	1mA (Vac) - 0,7mA (Vdc)
Output voltage drop	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
Max ripple content	≤10%

LED indicators	Yellow LED output state
Time delay before availability	100ms
Short-circuit protection	Yes
Impulsive Overvoltage Protection	Yes
Inrush current	600mA/150ms (AC/DC)
0,1µF @Vmax - 1µF @Vmin	1µF @Vmax - 1µF @Vmin

Mechanical data

Mounting	Shielded
Dimensions	M12 x 1 / L = 60mm
Weight	80g
Housing Material	Nickel-plated brass
Connections	6Nm
Active Head Material	PA4T
Tightening torque	5...140ma(Vac) - 5...200mA (Vdc)
Operating temperature	-25°C...+70°C

Test/Approvals

Approvals	CE cULus
EMC compatibility	2m PUR Cable
Shocks and vibrations	IEC 60947-5-2
Degree of protection	IP67

Accessories

Supplied Accessories	2 nuts M12x1

ELECTRICAL DIAGRAMS OF THE CONNECTIONS