





Model Number

MC60-12GM50-1N-V1

Features

60 mm flush with permanent magnet DM 60-31-15

Accessories

BF 12

Mounting flange, 12 mm

EXG-12

Quick mounting bracket with dead stop

DM 60-31-15

Permanent magnet for magnetic field sensors

DM 25-32-07

Permanent magnet for magnetic field sensors

Female connector, M12, 4-pin, field attachable V1-W

Female connector, M12, 4-pin, field attachable V1-G-N-2M-PUR

Female cordset, M12, 2-pin, NAMUR, PUR cable

V1-W-N-2M-PUR Female cordset, M12, 2-pin, NAMUR, PUR cable

Technical Data

General specifications

Switching function Normally open (NO) Output type Rated operating distance NAMUR 60 mm Installation flush in non-magnetic metal Assured operating distance 10 ... 48.6 mm

2-wire

Output type Nominal ratings

Nominal voltage U_{o} 8.2 V (R $_{i}$ approx. 1 k Ω) Switching frequency 0 ... 5000 Hz

Current consumption Magnet detected \geq 2.5 mA Magnet not detected ≤ 1 mA LED, yellow Switching state indicator

Functional safety related parameters

MTTF_d Mission Time (T_M) 4382 a 20 a Diagnostic Coverage (DC) 0 %

Ambient conditions

Ambient temperature -25 ... 70 °C (-13 ... 158 °F)

Mechanical specifications

Connector plug M12 x 1, 4-pin stainless steel 1,4404 / AISI 316L Connection type Housing material Sensing face stainless steel 1.4404 / AISI 316L

Degree of protection

General information

Use in the hazardous area see instruction manuals

Category

Compliance with standards and directives

Standard conformity

NAMUR EN 60947-5-6:2000 EN 60947-5-2:2007 Standards EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

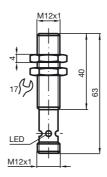
Approvals and certificates

FM approval

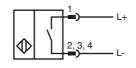
116-0165 Control drawing

CCC approval CCC approval / marking not required for products rated ≤36 V

Dimensions



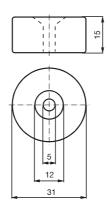
Electrical Connection



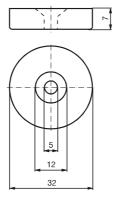
Pinout



Magnet DM 60-31-15



Magnet DM 25-32-07



Equipment protection level Gb			
CE marking		C €0102	
ATEX marking			
Standards		EN 60079-0:2012+A11:2013, EN 60079-11:2012 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions	
Appropriate type		MC60-12GM50-1N-V1	
Effective internal inductivity	Ci	≤ 15 nF; a cable length of 10 m is considered.	
Effective internal inductance	L _i	$\leq 35~\mu H$; a cable length of 10 m is considered.	
Special conditions			

