

IDEMAG - Magnetic Non Contact - Type: MPR

Magnetic Actuation

Switching Tolerance up to 12mm

Will operate with most Safety Relays

Compact yet robust fitting suitable for all small guard applications.

Can be mounted unobtrusively in channels or behind doors – left or right cable exit

Hygienic screw cap covers ensure suitability for Food Processing washdown.

Cost effective interlock solution.

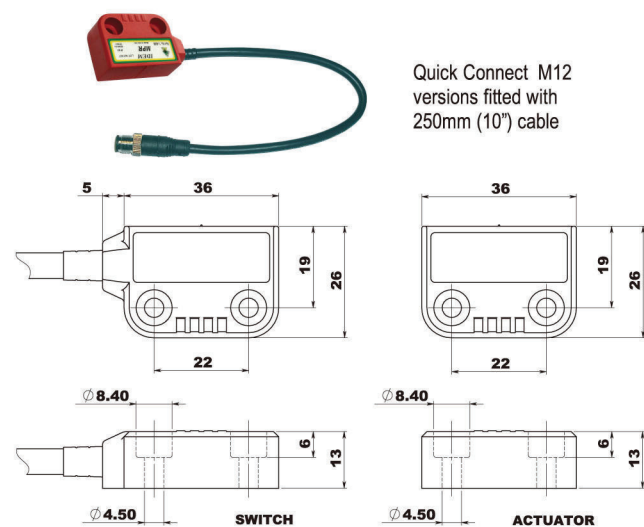
Wide sensing at 12mm and high tolerance to misalignment.

High current switching capability to 0.5A.

Up to: PLe ISO 13849 1 SIL 3 EN 62061 Cat.4 EN 954 1

2NC 1NO circuits

Quick connect versions M12 - 8 way or M8 - 4 way



Standards EN1088 IEC 60947-5-3 EN 60204-1
ISO 13849-1 EN62061 EN 954-1 UL508

Safety Classification and Reliability Data:

Mechanical Reliability B10d 3.3 x 10⁶ operations at 100mA load
EN 954-1 up to Category 4 with Safety Relay
ISO 13849-1 up to PLe depending upon system architecture
EN 62061 up to SIL3 depending upon system architecture
Safety Data - Annual Usage 8 cycles per hour / 24 hours per day / 365 days
PFHd 2.52 x 10⁻⁸
Proof Test Interval (Life) 47 years
MTTFd 470 years

Medium Duty Safety Channel 1 NC Voltage free : 250V.ac 0.5 A Max. Rating
Safety Channel 2 NC Voltage free : 250V.ac 0.5 A Max. Rating
Safety Channel 3 NO Voltage free : 24V.dc 0.2 A Max. Rating
Fuse Internal 1.0 A (F) External 0.4 A (F) (User)

Contact release time <2ms
Initial contact resistance <500 milliohm
Minimum switched current 10V. dc 1mA
Dielectric withstand 250V.ac
Insulation Resistance 100 Mohms
Recommended setting gap 5mm
Switching Distance: Sao 10mm Close
(Target to target) Sar 22mm Open
Tolerance to misalignment 5mm in any direction from 5mm setting gap
Switching frequency 1.0 Hz maximum
Approach speed 200mm/m. to 1000mm/s.
Body Material UL approved polyester
Temperature Range -25 +80C.
Enclosure Protection IP69K (NEMA PW12) IP67 (NEMA 6)
Shock Resistance IEC 68-2-27 11ms 30g
Vibration Resistance IEC 68-2-6 10-55 Hz. 1mm
Cable Type PVC 6 core 6mm O.D.
Mounting Bolts 2 x M4 Tightening torque 1.0 Nm
Mounting Position Any

For all IDEM switches the NC circuits are closed when the guard is closed and the actuator present

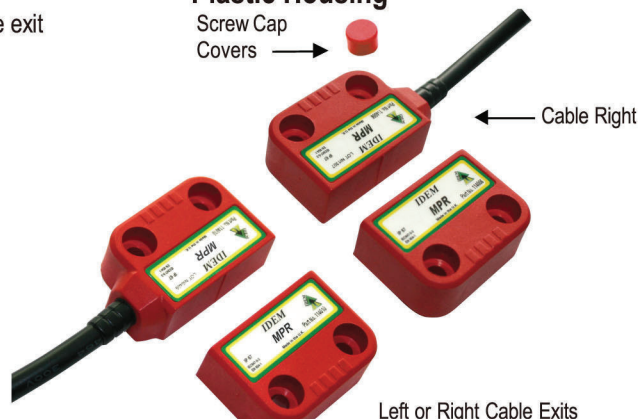


Specified to 80C

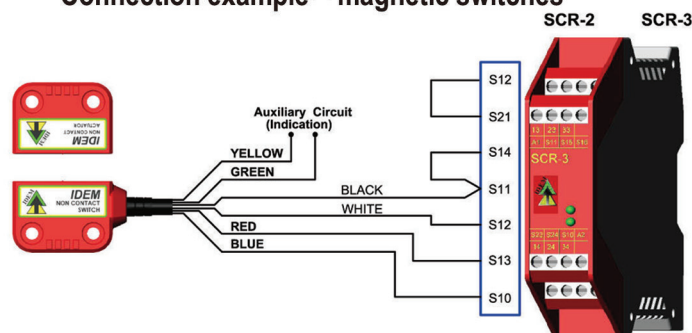
but designed to work up to 100C.

Plastic Housing

Screw Cap Covers



Connection example – magnetic switches



Sales Number	Type	Cable Length	Circuits
114001	MPR Cable Right	2M	2NC
114002	MPR Cable Right	5M	2NC
114003	MPR Cable Right	10M	2NC
114004	MPR Cable Right	QC-M12	2NC
114005	MPR Cable Right	2M	2NC 1NO
114006	MPR Cable Right	5M	2NC 1NO
114007	MPR Cable Right	10M	2NC 1NO
114008	MPR Cable Right	QC-M12	2NC 1NO
114009	MPR Cable Left	2M	2NC
114010	MPR Cable Left	5M	2NC
114011	MPR Cable Left	10M	2NC
114012	MPR Cable Left	QC-M12	2NC
114013	MPR Cable Left	2M	2NC 1NO
114014	MPR Cable Left	5M	2NC 1NO
114015	MPR Cable Left	10M	2NC 1NO
114016	MPR Cable Left	QC-M12	2NC 1NO

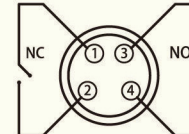
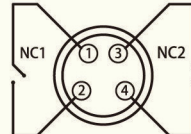
Alternative QC version

M8 Universal

2NC versions

4 way integral connector

1NC 1NO versions



M8 Connector Right	QC M8 2NC	Close 10mm Open 20mm
114020	MPR Connector Right	QC M8 2NC
114021	MPR Connector Left	QC M8 2NC
114022	MPR Connector Right	QC M8 1NC 1NO
114023	MPR Connector Left	QC M8 1NC 1NO
114024	MPR Connector Right	QC M8 2NC
114025	MPR Connector Left	QC M8 2NC
114026	MPR Connector Right	QC M8 1NC 1NO
114027	MPR Connector Left	QC M8 1NC 1NO

114300	Plastic 8mm Spacers for use when mounted on Ferrous Materials.	(1 X Switch 1 X Actuator)
--------	--	---------------------------