

IDEMAG - Magnetic Non Contact - Type CPR

Magnetic Actuation - Power series

Heavy Duty 230V.ac / 24V.dc 2.0A. or Medium Duty version 1.0A.

Switching Tolerance up to 14mm

Specified to 80°, but designed to work up to 100°

Slim fitting suitable for all industry applications.

Will operate with most EN 954-1 Cat.4 Safety Relays

Easy to install within narrow frame structures.

Operates from 2 sides for ease of application.



Plastic Housing

Wide 14mm sensing high tolerance to misalignment.

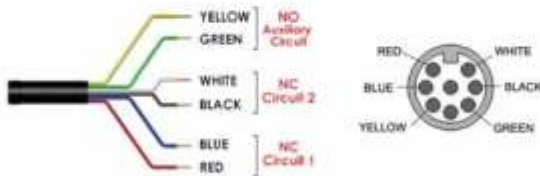
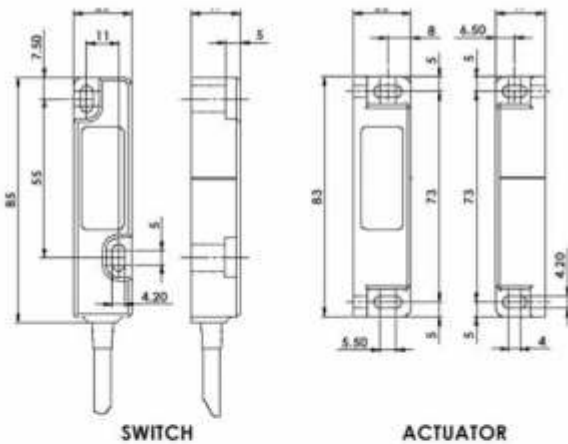
High switching capability - Medium Duty 1A. Heavy Duty 2A.

Can be used as standalone switch for low risk applications or up to EN 954-1 Cat.4 with safety relay.



Side actuation

Front actuation



Standards

EN1088 IEC 947-5-3 EN 60204-1
EN 954-1 UL508

Heavy Duty

Safety Channel 1 NC
Safety Channel 2 NC
Safety Channel 3 NO
Fuse

Voltage free : 250V.ac 2.0 A Max. Rating
Voltage free : 250V.ac 2.0 A Max. Rating
Voltage free : 24V.dc 0.2 A Max. Rating
Internal 2.0 A. (F) External 1.6A (F) (User)

Medium Duty

Safety Channel 1 NC
Safety Channel 2 NC
Safety Channel 3 NO
Fuse

Voltage free : 250V.ac 1.0 A Max. Rating
Voltage free : 250V.ac 1.0 A Max. Rating
Voltage free : 24V.dc 0.2 A Max. Rating
Internal 1.0 A. (F) External 0.8A (F) (User)

Contact release time

<2ms

Initial contact resistance

<500 milliohm

Minimum current

10V. dc 1mA

Dielectric withstand

250V.ac

Settling gap

5mm

Switching Distance:

Sao 10mm Close

(Target to target)

Ser 22mm Open

Misalignment tolerance

5mm in any direction from 5mm setting gap

Switching frequency

1.0 Hz maximum

Approach speed

200mm/m. to 1000mm/m.

Body Material

Red Polyester

Temperature Range

-25 / 80C.

Enclosure Protection

IP67

Shock Resistance

IEC 68-2-27 11ms 30g

Vibration Resistance

IEC 68-2-6 10-55 Hz. 1mm

Mechanical Life

10,000,000 switchings

Electrical Life Expectancy

1,000,000 switchings

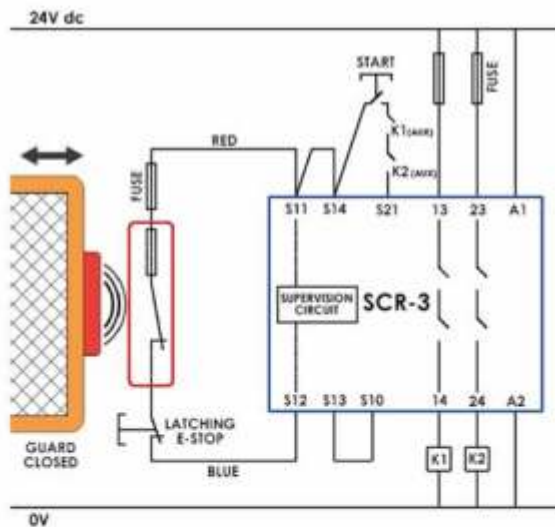
Cable Type

De-rating Safety Factor 2
Tested to 2,000,000 switchings at 24V. 200mA

Mounting Bolts

PVC 6 or 2 core 6mm O.D. max.
2 x M4 Tightening torque 1.0 Nm

Application example – magnetic switches



One switch connected to an SCR-2 or SCR-3 to give Single Channel Guard monitoring but with monitored manual start and contactor feedback check. Allows minimal wiring but higher current switching to K1 and K2 contactors.

Sales Number	Type	Cable Length	Circuits	NC Duty
113001	Idemag CPR	2M	2NC	Medium 1A
113002	Idemag CPR	5M	2NC	Medium 1A
113003	Idemag CPR	10M	2NC	Medium 1A
113004	Idemag CPR	QC-M12	2NC	Medium 1A
113005	Idemag CPR	2M	2NC 1NO	Medium 1A
113006	Idemag CPR	5M	2NC 1NO	Medium 1A
113007	Idemag CPR	10M	2NC 1NO	Medium 1A
113008	Idemag CPR	QC-M12	2NC 1NO	Medium 1A
113009	Idemag CPR	2M	1NC	Heavy 2A
113010	Idemag CPR	5M	1NC	Heavy 2A
113011	Idemag CPR	10M	1NC	Heavy 2A
113012	Idemag CPR	QC-M12	1NC	Heavy 2A
113013	Idemag CPR	2M	1NC 1NO	Heavy 2A
113014	Idemag CPR	5M	1NC 1NO	Heavy 2A
113015	Idemag CPR	10M	1NC 1NO	Heavy 2A
113016	Idemag CPR	QC-M12	1NC 1NO	Heavy 2A