

Magnetically Coded: KPC (KOBRACODE)

FEATURES:

Industry housing shape 52mm wide 98mm long 40mm fixing.
2NC 1NO semi conductor outputs for connection to safety relay.
Visual LED indication of switch status.
Fully encapsulated sealing and pre-wired 2m, 5m or 10m cable.
Wide 10mm sensing with high tolerance to misalignment.
M12 8 Way Quick Connect version available (flying lead 150mm).

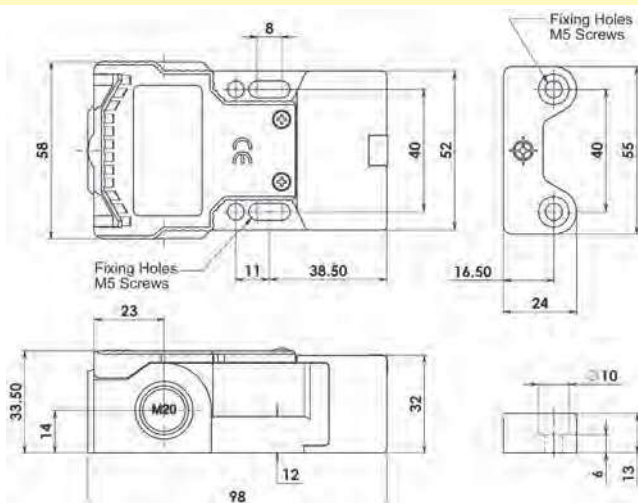
APPLICATION:

IDEM KPC Coded Non Contact switches have been designed to interlock hinged, sliding or removable guard doors.
They have an industry standard fixing and are specifically advantageous where:

- (a) severe guard alignment exists using traditional tongue type versions.
- (b) long mechanical life is required (no moving or touching parts).

When used in combination with Dual Channel Safety Relays they can be used to provide up to PLe ISO13849-1 SIL3 EN62061.

DIMENSIONS:



Pre-wired Versions (fully encapsulated)

Standards: ISO14119 EN60947-5-3
EN60204-1 ISO13849-1 EN62061 UL508

Safety Classification and Reliability Data:

ISO13849-1 Up to PLe Category 4
PFHd 2.6×10^{-10}
Proof Test Interval (Life) 20 years
MTTFd 866 years

Technical Specification:

Safety Channel 1 NC 24Vdc 0.2A Max. Rating
Safety Channel 2 NC 24Vdc 0.2A Max. Rating
Safety Channel 3 NO 24Vdc 0.2A Max. Rating
Minimum Switched Current 10Vdc 1mA
Dielectric Withstand 250Vac
Insulation Resistance 100 Mohms
Recommended Setting Gap 5mm
Switching Distance Sao 8mm Close
Sar 20mm Open
Tolerance to Misalignment 5mm in any direction from 5mm setting gap
Switching Frequency 1.0Hz maximum
Approach Speed 200mm/min to 1000mm/sec
Body Material UL approved polyester
Operating Temperature -25C +80C
Enclosure Protection IP67 (NEMA 6)
Shock Resistance IEC68-2-27 11ms 30g
Vibration Resistance IEC68-2-6 10-55Hz 1mm
Cable Type PVC 8 core 6mm OD Conductors 0.25mm²
Mounting Bolts 2xM5 Tightening torque 1.0Nm
Mounting Position Any

For all IDEM switches the normally closed (NC) circuits are closed when the guard is closed and the actuator is present.

Coded Magnetic Actuation.

Switching Tolerance up to 10mm.

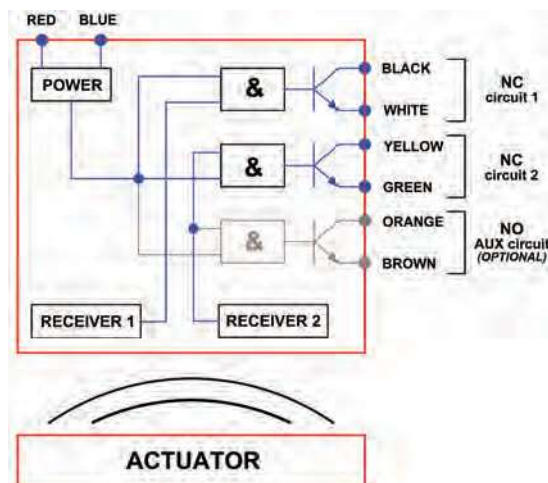
Will operate with most Safety Relays.



Front Actuation

End Actuation

SENSING PRINCIPLE:



SALES NUMBER	TYPE	CONDUIT OR CABLE EXIT		CIRCUITS
120001	Kobracode KPC	Pre-wired 2m	End	2NC 1NO
120002	Kobracode KPC	Pre-wired 5m	End	2NC 1NO
120003	Kobracode KPC	Pre-wired 10m	End	2NC 1NO
120004	Kobracode KPC	Pre-wired 2m	Left	2NC 1NO
120005	Kobracode KPC	Pre-wired 5m	Left	2NC 1NO
120006	Kobracode KPC	Pre-wired 10m	Left	2NC 1NO
120007	Kobracode KPC	Pre-wired 2m	Right	2NC 1NO
120008	Kobracode KPC	Pre-wired 5m	Right	2NC 1NO
120009	Kobracode KPC	Pre-wired 10m	Right	2NC 1NO
120012	Kobracode KPC	QC M12 8 Way 150mm	End	2NC 1NO