RFID Coded: KPF

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.

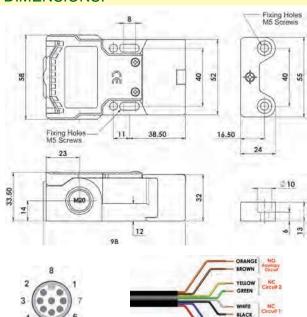
Fully encapsulated sealing and pre-wired 2m, 5m or 10m cable. Wide 14mm sensing with high tolerance to misalignment. M12 8 Way Quick Connect version available (flying lead 150mm).

APPLICATION:

IDEM KPF RFID 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:



Quick Connect QC M12 8 Way Male Plug Pin view from Switch	Flying Lead Colour	Circuit (Actuator Present)	Output Types Solid State	
8	Orange	Auxiliary NO	200mA Max. 24Vdc	
5	Brown	Auxiliary NO		
4	Yellow	Safety NC2	200mA Max. 24Vdc	
6	Green	Safety NC2	200111A Wax. 24Vuc	
7	Black	Safety NC1	200mA Max. 24Vdc	
1	White	Safety NC1	Zuuma Max. Z4Vdc	
2	Red	Supply +24Vdc	Supply 24Vdc	
3	Blue	Supply 0Vdc	+/- 10%	

SALES NUMBER	MASTER CODED (same code every switch)	CABLE LENGTH
408101	KPF-M-RFID END Cable (pre-wired)	5M
408102	KPF-M-RFID END Cable (pre-wired)	10M
408103	KPF-M-RFID END Cable (pre-wired)	QC-M12
408104	KPF-M-RFID LEFT Cable (pre-wired)	5M
408105	KPF-M-RFID LEFT Cable (pre-wired)	10M
408106	KPF-M-RFID LEFT Cable (pre-wired)	QC-M12
408107	KPF-M-RFID RIGHT Cable (pre-wired)	5M
408108	KPF-M-RFID RIGHT Cable (pre-wired)	10M
408109	KPF-M-RFID RIGHT Cable (pre-wired)	QC-M12
408201	Replacement Actuator Master Coded	

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

RFID Coded Actuation. Switching Tolerance up to 14mm. Will operate with most Safety Relays.





Standards:

ISO14119 EN60947-5-3 EN60204-1 ISO13849-1 EN62061 UL 60947-5-1

Safety Classification and Reliability Data: Minimum switched current:

Minimum switched current:
Dielectric Withstand:
Insulation Resistance:
Recommended setting gap:
Switching Distance:

Tolerance to Misalignment:
Switching frequency:
Approach speed:
Body material:
Temperature Range:
Enclosure Protection:
Cable Type:
Mounting Bolts:

250V.ac
100 Mohms
5mm
Sao 8mm Close
Sar 20mm Open
5mm in any direction from 5mm setting gap
1.0 Hz maximum

10V.dc 1mA

uency: 1.0 Hz maximum
speed: 200mm/m to 1000mm/s
aterial: Polyester
Range: -25/55C
ection: IP67

Cable Type:
Mounting Bolts:
Mounting Position:

Cable Type:
Mounting Position:

Any

PVC 6 or 8 core 6mm OD Conductors 0.25mm²
2 x M4 Tightening torque 1.0 Nm
Any

Characteristic Data according to IEC62061 (used as a sub system):

Characteristic Data according to EN ISO13849-1:

Performance Level e If both channels are used in combination with a SIL3/PLe control device

SIL3/PLe control of Category Cate
MTTFd 1100a
soverage DC 99% (high)

Diagnostic Coverage DC 99% (high)
Number of operating days per year:
Number of operating hours per day:
B10d 99% (high)
hop = 365d
hop = 24h
not mechan

B10d not mechanical parts implemented

When the product is used deviant from these assumptions (different load, operating

frequency, etc.) the values have to be adjusted accordingly.

SALES NUMBER	UNIQUELY CODED (every switch unique activation)	CABLE LENGTH
408001	KPF-U-RFID END Cable (pre-wired)	5M
408002	KPF-U-RFID END Cable (pre-wired)	10M
408003	KPF-U-RFID END Cable (pre-wired)	QC-M12
408004	KPF-U-RFID LEFT Cable (pre-wired)	5M
408005	KPF-U-RFID LEFT Cable (pre-wired)	10M
408006	KPF-U-RFID LEFT Cable (pre-wired)	QC-M12
408007	KPF-U-RFID RIGHT Cable (pre-wired)	5M
408008	KPF-U-RFID RIGHT Cable (pre-wired)	10M
408009	KPF-U-RFID RIGHT Cable (pre-wired)	QC-M12



140101	Female QC Lead	M12 Female 5m. 8 way
140102	Female QC Lead	M12 Female 10m. 8 way