

NON-CONTACT INTERLOCK SWITCHES

Will operate with most Safety Relays.

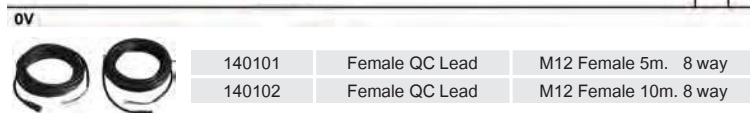
Two red rectangular IDEM CPC sensors are shown. The sensor in the foreground has a black cable connected to its left side. Both sensors have a green label with white text that reads "IDEM CPC", "CPC-1000", "LPT 10000", and "S/N 1000". There is also a small logo on the label.

The diagram illustrates the 24Vdc power supply wiring for four IDEM W301 modules. Each module has three power inputs: RED (24V), BLUE (0V), and WHITE (24V). The modules are connected to a terminal block with terminals S21, S12, S11, S12, S13, S10, 13, 23, 14, 24, and A2. A fuse is connected to the 24V line. The terminal block is labeled with K1 (Aux) and K2 (Aux). The modules are labeled IDEM W301.

Quick Connect M12
versions fitted with
250mm (10") cable.

Three switches connected in series to an SCR-2 or SCR-3 to give Dual Channel monitoring with automatic start and contactor feedback check.

Optional auxiliary circuits provide for remote signalling from each switch.



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:

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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 (Target to Target)	Sao 10mm 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	IP69K IP67		
Shock Resistance	IEC68-2-27	11ms	30g
Vibration Resistance	IEC68-2-6	10-55Hz	1mm
Cable Type	PVC 6 or 8 core 6mm OD	Conductors	0.25mm ²
Mounting Bolts	2xM4	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.

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 or NC	200mA Max. 24Vdc
5	Brown	Auxiliary NO or NC	
4	Yellow	Safety NC2	200mA Max. 24Vdc
6	Green	Safety NC2	
7	Black	Safety NC1	200mA Max. 24Vdc
1	White	Safety NC1	
2	Red	Supply +24Vdc	Supply 24Vdc +/- 10%
3	Blue	Supplv 0Vdc	

SALES NUMBER	TYPE	CABLE LENGTH	CIRCUITS
115001	Idecode CPC	2M	2NC
115002	Idecode CPC	5M	2NC
115003	Idecode CPC	10M	2NC
115004	Idecode CPC	QC-M12	2NC
115005	Idecode CPC	2M	2NC 1NO
115006	Idecode CPC	5M	2NC 1NO
115007	Idecode CPC	10M	2NC 1NO
115008	Idecode CPC	QC-M12	2NC 1NO

AVAILABLE WITHOUT LED IF REQUIRED.