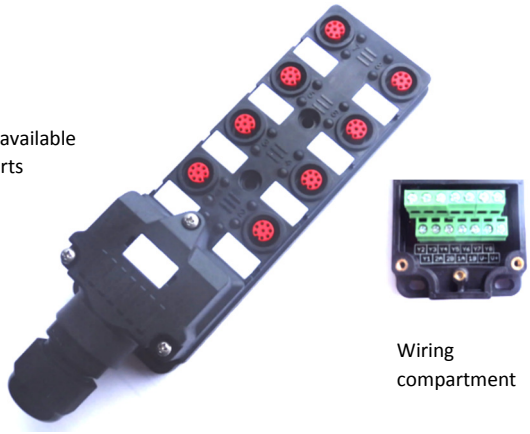
8 port M12 Connection Box for use with Magnetic Non-Contact Switches. Type CB (Part 140213)

Shorting plug available for unused ports



Wiring compartment

Features:

Connect up to 8 switches in series to one safety controller.

Configured for dual circuit to a safety controller.

Unused ports can be plugged.

M20 conduit exit (M20 Cable gland accepts cable O.D. 6.5 – 12.0mm).

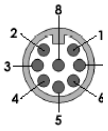
Specification:

Port connection type:	8 x 8 Pin M12 Female sockets
Ambient temperature:	-20C. to 40C.
Supply Voltage:	24V.dc (+/- 10%).
Maximum current:	500mA
Body Material:	Polyester
Internal Terminals:	Screw type – clamp 16-30AWG conductors
Cable exit:	M20 cable gland
Mounting:	2 x M4 bolts (4.6mm dia. clearance holes)
Accessory:	Shorting plug for unused ports.

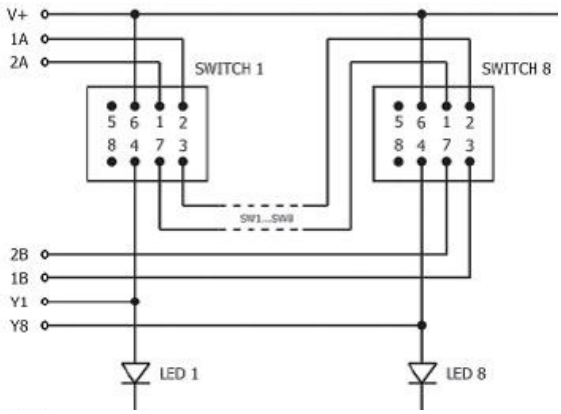
LED's

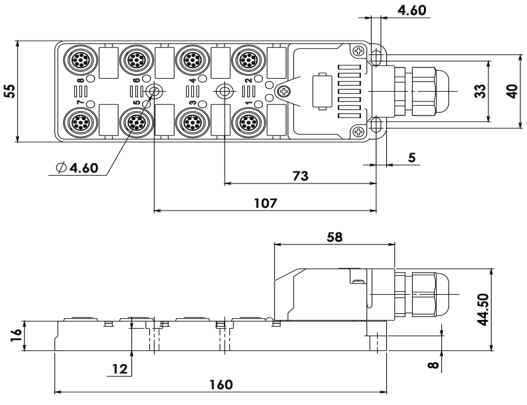
LED 1-8 (Red)	Auxiliary indication of switch open

For use with 8 pin M12 Quick Connect version switches with the following circuits:

Switch Quick Connect (QC) M12 8 way Male plug (Pin view from switch)		Circuit (Actuator present)
	8	Not used
	5	Not used
	4	Auxiliary (NO)
	6	Auxiliary (NO)
	7	NC 2
	1	NC 2
	2	NC 1
	3	NC 1

All NC1 connected in series, All NC2 connected in series.





Terminal	Function
Y1	Auxiliary out +24V.dc Switch 1 open LED 1 on
Y2	Auxiliary out +24V.dc Switch 2 open LED 2 on
Y3	Auxiliary out +24V.dc Switch 3 open LED 3 on
Y4	Auxiliary out +24V.dc Switch 4 open LED 4 on
Y5	Auxiliary out +24V.dc Switch 5 open LED 5 on
Y6	Auxiliary out +24V.dc Switch 6 open LED 6 on
Y7	Auxiliary out +24V.dc Switch 7 open LED 7 on
Y8	Auxiliary out +24V.dc Switch 8 open LED 8 on
2A 2B	NC 2 Closed when all switches are closed (series connection)
1A 1B	NC 1 Closed when all switches are closed (series connection)
V +	Supply +24V.dc
V -	Supply 0V.dc

Information with regard to UL 508:

Type 1 Enclosures.
Maximum temperature 40°C. Maximum current 500mA. Powered by Class 2 or equivalent.
Terminals 16-30AWG conductors. Terminal Torque 6 lb-ins. (0.7Nm).
Polymeric conduit or gland connection only.

For use with IDEM (Non-Contact Coded switches only)

WARNING: DO NOT DEFEAT, TAMPER, OR BYPASS THE SAFETY FUNCTION. FAILURE TO DO SO CAN RESULT IN DEATH OR SERIOUS INJURY.
AVERTISSMENT: NE PAS DESACTIVER, MODIFIER, RETIRER, OU CONTOURNER CETI INTERVERROUILLAGE IL PEUT EN RESULTER DES

Original Instructions.
To request this data sheet in other languages please contact info@idemsafety.com
Um dieses Datenblatt in Deutscher Sprache wenden Sie sich bitte anfordern info@idemsafety.com
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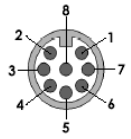
Type CB (Part 140214) fitted with M12 8 way Quick Connect on 250mm Flying Lead

Pin	Function	Pin view from box M12 Male 8 way on Flying Lead 250mm
5	Auxiliary out +24V.dc Any switch open	
4	NC 2 Closed when all switches are closed (series connection)	
6		
7	NC 1 Closed when all switches are closed (series connection)	
1		
2	Supply +24V.dc	
3	Supply 0V.dc	
8	Not used	

Type CB (Part 140215) pre-wired 5m. 14 core

Terminal	Function	Cable OD 8.5mm Conductors 0.34 sq.mm Conductor colours
Y1	Auxiliary out +24V.dc Switch 1 open LED 1 on	Pink
Y2	Auxiliary out +24V.dc Switch 2 open LED 2 on	Brown/Green
Y3	Auxiliary out +24V.dc Switch 3 open LED 3 on	White/Green
Y4	Auxiliary out +24V.dc Switch 4 open LED 4 on	Grey
Y5	Auxiliary out +24V.dc Switch 5 open LED 5 on	Red/Blue
Y6	Auxiliary out +24V.dc Switch 6 open LED 6 on	Brown
Y7	Auxiliary out +24V.dc Switch 7 open LED 7 on	Violet
Y8	Auxiliary out +24V.dc Switch 8 open LED 8 on	Grey/Pink
2A	NC 2 Closed when all switches are closed (series connection)	Black
2B		White
1A	NC 1 Closed when all switches are closed (series connection)	Yellow
1B		Green
V +	Supply +24V.dc	Red
V -	Supply 0V.dc	Blue