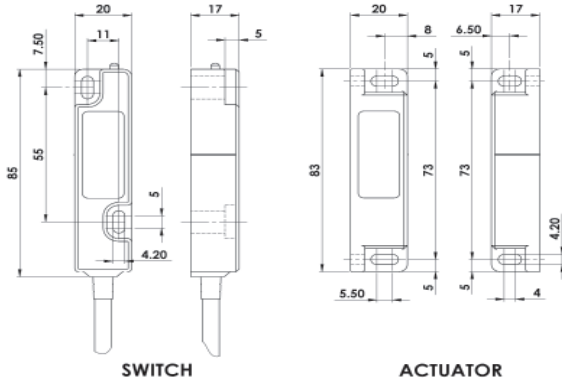


# IDECODE - Coded Non Contact Type: CPC

## FEATURES:

Designed with a slim fitting making it suitable for all industry applications  
Easy to install within narrow frame constructions  
High specification and durable polyester housing  
Wide 14mm sensing with high tolerance to misalignment  
Up to: PLe ISO13849-1  
2NC 1NO circuits - high switching life - no moving parts  
Quick Connect versions available

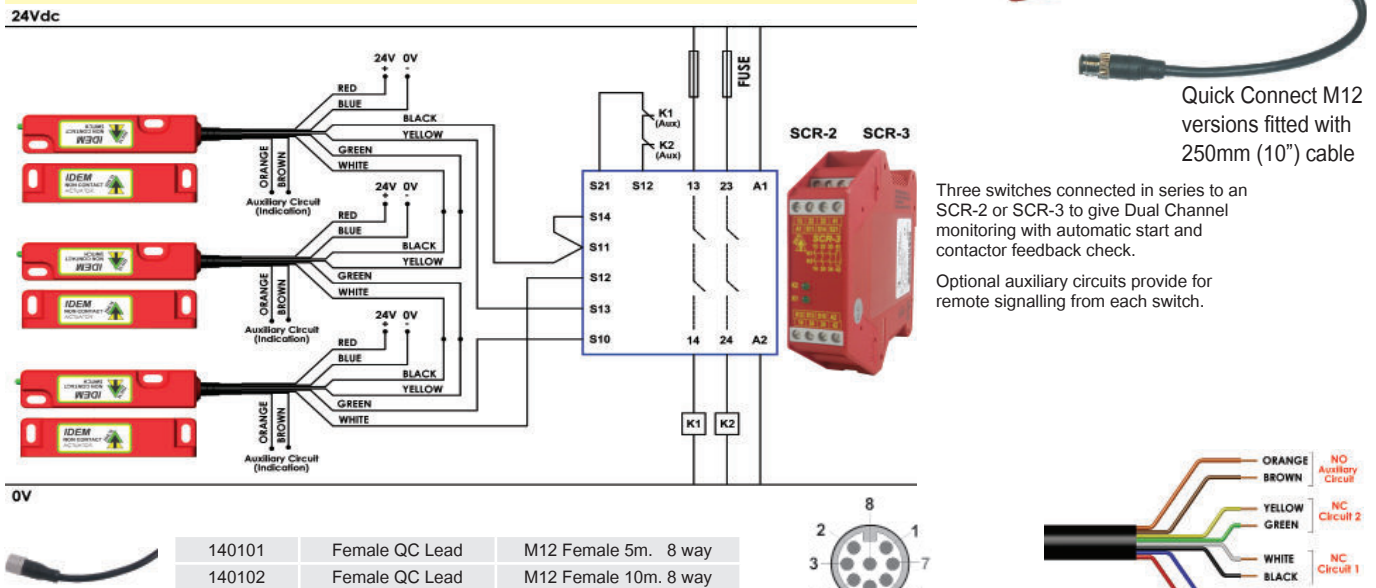
## DIMENSIONS:



**Coded Magnetic Actuation**  
**Switching Tolerance up to 14mm**  
**Will operate with most Safety Relays**



## CONNECTION EXAMPLE: CODED SWITCH



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

### Safety Classification and Reliability Data:

|                            |   |
|----------------------------|---|
| ISO13849-1                 | Up to PLe Category 4                                  |
| PFHd                       | $2.6 \times 10^{-10}$                                 |
| Proof Test Interval (Life) | 20 years  |
| MTTFd                      | 866 years   |
| 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 10mm Close  |
| (Target to Target)         | 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 <sup>2</sup> |
| 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               | Supply 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.