



## IDEM STAINLESS STEEL IP69K GRAB WIRE SAFETY ROPE SWITCH GLS-SS

144015-FZ

GLS-SS M20 '2NC 2NO' E stop -(-40° version)



- Up to 80m using just one switch
- Many possible contact arrangements
- Bi - colour LED
- Integrated emergency stop button



### PRODUCT DESCRIPTION

The GLS-SS is general duty safety rope pull switch designed to protect long conveyor lengths up to 100m.

The Stainless Steel 316 housings are designed specifically to withstand the harsh environments found in the food and pharmaceutical industries. The fixing holes are under the cover of the switch to prevent food trap areas and will survive chemical and detergent washdown by providing all stainless steel parts and robust IP67 and IP69K sealing by using integral bellows and gaskets.

An easily visible bi-colour LED is available to show switch status from a distance and they have a choice of 3 pole, 4 pole or explosion proof contact blocks to ensure flexibility with all modern control applications.

Shorter rope spans up to 80m can be achieved by using just one switch therefore making a cost-effective solution and also reducing electrical wiring runs.

### TECHNICAL DATA

|                                  |  |
|----------------------------------|--|
| Annual usage                     | 8 cycles per hour/24 hours per day/365 days  |
| Approvals                        | EN60947-5-5, ISO 13850, ISO 13849-1, EN62061, EN60947-5-1, UL 508                        |
| Conduit entry                    | 3 x M20  |
| Contact type                     | EN60947-5-1 double break type Zb, snap action up to 4NC (positive break) 2NO (auxiliary) |
| Contacts                         | 2NC 2NO  |
| Fittings                         | E-stop   |
| Housing material                 | Stainless steel 316  |
| Integrated emergency stop button | Yes  |
| Integrated LED indication        | No   |
| IP class                         | IP69K, IP67  |
| Material contacts                | Silver   |

|  |   |
|--|---|
| <b>Mechanical reliability B10d</b>           | 1.5 x 10 <sup>6</sup> operations at 100mA load    |
| <b>Mounting</b>                              | 4 x M5  |
| <b>MTTFd</b>                                 | 214 years   |
| <b>Operating temperature</b>                 | -40°C +80°C                                       |
| <b>PFHd</b>                                  | <1.0 x 10 <sup>-7</sup>                           |
| <b>PL</b>                                    | upp till Ple                                      |
| <b>Rope span</b>                             | Up to 100m (2 switches) 80m (1 switch)            |
| <b>Rope tension device</b>                   | IDEM tensioner/gripper (quick fixing)             |
| <b>Rope type</b>                             | 4.00mm outside diameter. Steel inner - PVC sheath |
| <b>Short circuit overload protection</b>     | Fuse externally 10A(FF)                           |
| <b>SIL</b>                                   | upp till SIL3                                     |
| <b>Tension force (typical mid setting)</b>   | 130 N   |
| <b>Termination</b>                           | Clamp up to 2.5mm <sup>2</sup> conductors         |
| <b>Thermal current (Ith)</b>                 | 10 A  |
| <b>Typical operating force (rope pulled)</b> | <125N <300m deflection                            |
| <b>Weight</b>                                | 1810 g  |

