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# IDEM SAFETY LIMIT SWITCHES LSPS (PLASTIC BODY)

171001
LSPS Pin Plunger M20 '2NC 1NO'




- Positive opening safety contact to EN60947-5-1
- 11 actuator heads - linear, rotary, roller or flexible actions
- High mechanical life over 10,000,000 cycles
- Enclosure protection to IP67 - suitable for washdown
- Conduit entries available: M20, 1/2”NPT or Quick Connect optio

### PRODUCT DESCRIPTION

IDEM’s extensive range of LSPS Safety Limit Switches have been designed to be mounted for position sensing of moving applications e.g. guard doors, conveyors, machine beds and elevators. They are available with linear plungers, rotary levers, roller plungers or spring levers and are available with either slow break or snap action contacts.

Actuator types



| | |
|---|---|
| PP | Pin plunger |
| RP | Roller plunger |
| HL | Hinge lever |
| LHL | Long hinge lever |
| RL | Roller lever |
| ARL | Adjustable roller lever |
| LA | Large roller lever |
| CW | Cats whisker |
| PSL | Plastic spring lever |
| SL | Spring lever |

Operation

Operation of LSPS Safety Limit Switches is achieved by a sliding actuation of the moving object to cause deflection of the switch plungers, rollers, levers or flexible actuators.

For safety applications it is important that the moving object does not pass completely over the switch actuators so as to either cause damage to the actuator or allow it to return to its original position.

# TECHNICAL DATA

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|---|---|
| **Actuator** | Pin Plunger |
| **Annual usage** | 8 cycles per hour/24 hours per day/365 days |
| **Approvals** | ISO 14119, EN60947-5-1, EN60204-1, ISO 13849-1, EN62061, UL 508 |
| **Conduit entry** | M20 |
| **Contacts** | 2NC 1NO |

| | |
|---|---|
| **Housing material** | Glass-filled polyester |
| **IP class** | IP67 |
| **Mechanical reliability B10d** | 2.5x10⁶ operations at 100mA load |
| **MTTFd** | 356 Years |
| **Operating temperature** | -25C +80C |
| **PFHd** | 3.44 x $10^{-8}$ |
| **Rated insulation voltage** | 300Vac |
| **Thermal current (Ith)** | 10 A |

