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# IDEM SAFETY LIMIT SWITCH HLM-SS (STAINLESS STEEL)

175107
HLM-SS Pin Plunger M20 '4NC'




- Heavy duty Stainless Steel 316 bodies
- Positive opening NC safety contact
- High mechanical life over 5,000,000 cycles
- Large choice of actuator heads
- IP69K Suitable for washdown

### PRODUCT DESCRIPTION

IDEM's HLM range of heavy duty Stainless Steel 316 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 an extensive range of actuator heads and can be supplied with either slow break or snap action contacts.

**Operation**
Operation of IDEM Safety Limit Switches is achieved by a sliding actuation of the moving object to cause deflection of the switch plungers, rollers or levers. 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 |
| **ATEX approved** | No |
| **Cable entry** | 1 x M20 x1,5 |
| **Conductor size** | 1.5 mm² |
| **Conduit entry** | M20 |
| **Connection** | Screw terminal |
| **Contact voltage/current min** | 5V, 5mA, DC |
| **Contacts** | 4NC |
| **Housing material** | Stainless steel 316 |

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| **IP class** | IP69K |
| **Material of body** | Stainless steel 316 |
| **Maximum switching speed** | 250 mm/s |
| **Mechanical reliability B10d** | 2.5x10⁶ operations at 100mA load |
| **Mounting** | M5 |
| **MTTFd** | 356 years |
| **Operating temperature** | -25C +80C |
| **PFHd** | 3.44 x $10^{-8}$ |
| **PL** | up to PLe acc. ISO13849-1 |
| **Rated insulation voltage** | 300 V AC |
| **SIL** | up to SIL 3 acc. EN62061 |
| **Thermal current (Ith)** | 10 A |
| **Utilisation category** | AC15 A300 240V 3A |
| **Vibration** | IEC 68-2-6, 10-55Hz 0,35mm |
| **Withstand voltage** | 2500 V AC |

