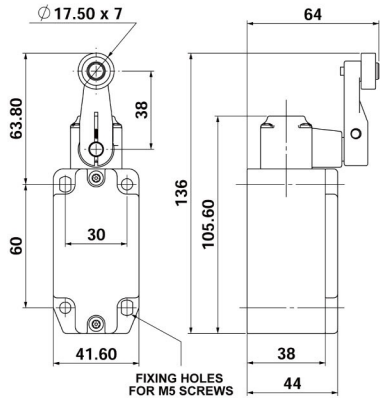
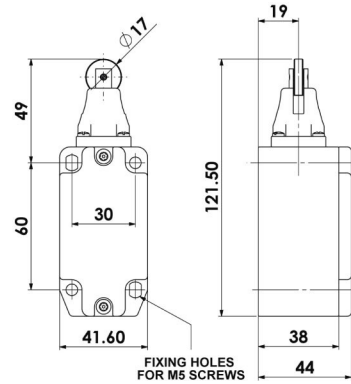
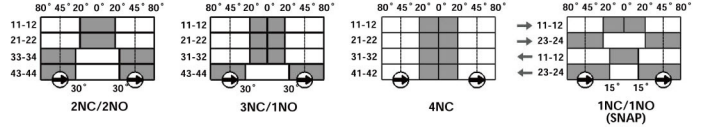


Safety Limit Switches - Type: HLM-SS EN 50041



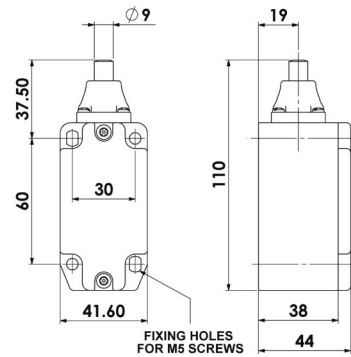
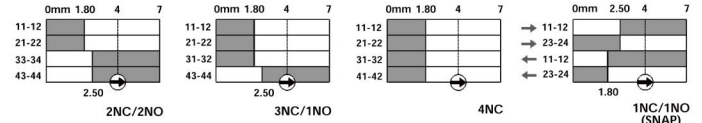
| HLM-SS Short Roller Lever Sales Numbers | | | |
|---|--------|------------|--------|
| | M20 | ½"NPT | QC M23 |
| 2NC 2NO | 175001 | 175002 | 175003 |
| 3NC 1NO | 175004 | 175005 | 175006 |
| 4NC | 175007 | 175008 | 175009 |
| 1NC 1NO Snap | 175010 | 175011 | 175012 |
| 1NC 1NO EX | 175013 | 3m. 4 core | Ex |
| 2NC EX | 175014 | 3m. 4 core | Ex |
| 2NC 2NO EX | 175015 | 3m. 8 core | Ex |

Gold Plated Contacts available for low power circuits (5V. 5mA).
Add GC to Part Number e.g. 175001-GC



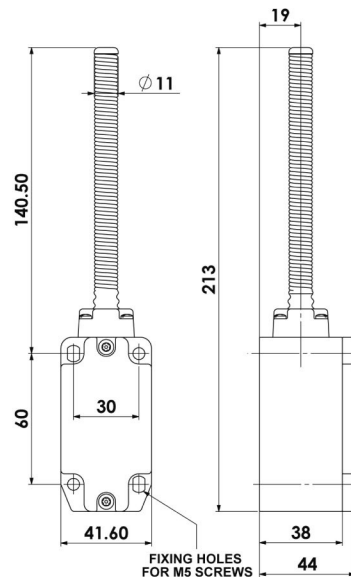
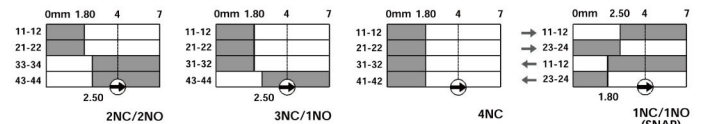
| HLM-SS Roller Plunger Sales Numbers | | | |
|-------------------------------------|--------|------------|--------|
| | M20 | ½"NPT | QC M23 |
| 2NC 2NO | 175051 | 175052 | 175053 |
| 3NC 1NO | 175054 | 175055 | 175056 |
| 4NC | 175057 | 175058 | 175059 |
| 1NC 1NO Snap | 175060 | 175061 | 175062 |
| 1NC 1NO EX | 175063 | 3m. 4 core | Ex |
| 2NC EX | 175064 | 3m. 4 core | Ex |
| 2NC 2NO EX | 175065 | 3m. 4 core | Ex |

Gold Plated Contacts available for low power circuits (5V. 5mA).
Add GC to Part Number e.g. 175051-GC



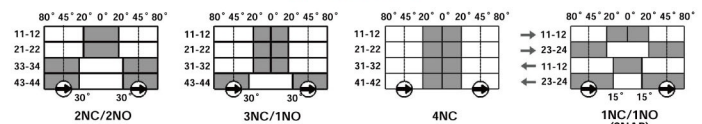
| HLM-SS Pin Plunger Sales Numbers | | | |
|----------------------------------|--------|------------|--------|
| | M20 | ½"NPT | QC M23 |
| 2NC 2NO | 175101 | 175102 | 175103 |
| 3NC 1NO | 175104 | 175105 | 175106 |
| 4NC | 175107 | 175108 | 175109 |
| 1NC 1NO Snap | 175110 | 175111 | 175112 |
| 1NC 1NO EX | 175113 | 3m. 4 core | Ex |
| 2NC EX | 175114 | 3m. 4 core | Ex |
| 2NC 2NO EX | 175115 | 3m. 8 core | Ex |

Gold Plated Contacts available for low power circuits (5V. 5mA).
Add GC to Part Number e.g. 175101-GC



| HLM-SS Spring Lever Sales Numbers | | | |
|-----------------------------------|--------|------------|--------|
| | M20 | ½"NPT | QC M23 |
| 2NC 2NO | 175151 | 175152 | 175153 |
| 3NC 1NO | 175154 | 175155 | 175156 |
| 4NC | 175157 | 175158 | 175159 |
| 1NC 1NO Snap | 175160 | 175161 | 175162 |
| 1NC 1NO EX | 175163 | 3m. 4 core | Ex |
| 2NC EX | 175164 | 3m. 4 core | Ex |
| 2NC 2NO EX | 175165 | 3m. 8 core | Ex |

Gold Plated Contacts available for low power circuits (5V. 5mA).
Add GC to Part Number e.g. 175151-GC



Safety Limit Switches - Type: HLM HLM-SS EN 50041



Roller Plunger



HLM-SS-RP

HLM-RP

Short Roller Lever



HLM-SRL

HLM-SS-SRL

Pin Plunger



HLM-PP

HLM-SS-PP

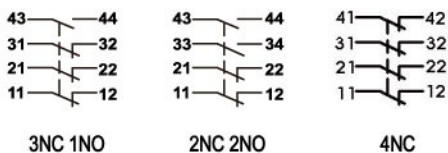
Features:

- Heavy Duty Die Cast or Stainless Steel 316 Bodies
- Industry Standard Mounting to EN 50041
- Positive opening NC safety contact to IEC 60947-5-1
- Choice of actuator heads Linear and Rotary
- High Mechanical Life 5,000,000 cycles
- HLM Die Cast Housing IP67
- HLM-SS Stainless Steel IP69K

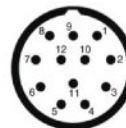
Applications:

IDEM Safety Limit switches are designed to be mounted for position sensing of moving applications e.g. guard doors, conveyors, machine beds, elevators. They are available with linear plungers, rotary levers or roller plungers and either slow or snap action contacts.

Contact blocks provide positively operated safety contacts to IEC 60947-5-1 with optional Explosion proof versions.



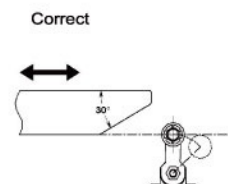
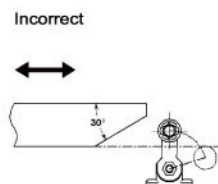
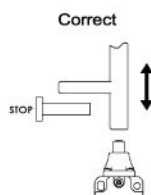
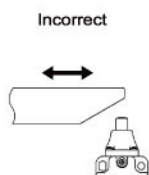
Quick Connect
Pin view from switch



| Quick Connect (QC) M23 12 way Male (connector Length 26mm) (Pin view from switch) | Switch Circuit |
|--|--------------------|
| 1 3 | 11 / 12 |
| 4 6 | 21 / 22 |
| 7 8 | 33 / 34 or 31 / 32 |
| 9 10 | 41 / 42 or 43 / 44 |
| 12 | Earth |

Operation:

Operation of the switches is achieved by a sliding actuation of the moving object to cause deflection of the switch plungers 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 Specification:

| | |
|------------------------------|------------------------------------|
| Conforming to standards | EN1088 IEC 60947-5-1 UL508 EN50041 |
| Positive Opening Operation | NC Contacts |
| Utilization Category | AC15 A300 240V. 3A. |
| Min Current | 5V, 5mA, DC |
| Thermal Current (Ith) | 10A |
| Rated Insulation Voltage | 300VAC |
| Rated Impulse Withstand Volt | 2500VAC |
| Max. Switching Speed | 250mm/s |
| Max. Switching Frequency | 6,000 operation per hour |

| | |
|---|---|
| Case Material | HLM (Die Cast Painted Red) HLM-SS (Stainless Steel 316) |
| Enclosure Protection | HLM IP67 HLM-SS IP67 / IP69K |
| Operating Temperature | Min. -25°C Max 80°C |
| Mechanical Life Expectancy | 5 x 10 ⁶ Cycle min. |
| Electrical Life Expectancy at full load | 100,000 Cycle min. |
| Vibration | IEC 68-2-6, 10-55Hz 0.35mm |
| Conductor size | 1.5 sq.mm |
| Fixing | M5 Bolts |

Spring Lever



HLM-SL

HLM-SS-SL

Pre-Wired Explosion Proof

- Exd IIC T6 (-20 ≤ Ta ≤ +60C) Gb
- Ex tb IIIC T85C (-20 ≤ Ta ≤ +60C) Db