

Safety Limit Switches: HLM-SS (S/Steel 316)

APPLICATIONS:

IDEM's HLM-SS range of heavy duty Stainless Steel 316 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 an extensive range of actuator heads and can be supplied with either slow break or snap action contacts. The full HLM-SS range is suitable for high temperature wash down at high temperature with detergent.

FEATURES:

- Heavy duty Stainless Steel 316 bodies
- Positive opening NC safety contact to EN60947-5-1
- High mechanical life over 5,000,000 cycles
- Industry standard mounting to EN50041
- Large choice of actuator heads available

OPERATION:

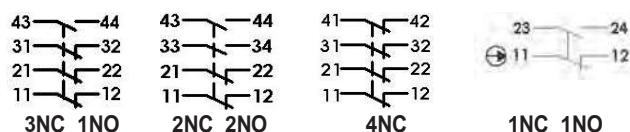
Operation of IDEM Safety Limit Switches is achieved by a sliding actuation of the moving object to cause deflection of the switch plungers, rollers or levers.

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.



CONTACT BLOCKS:

Contact blocks provide positively operated safety contacts to EN60947-5-1 with optional Explosion Proof versions available.



S/STEEL 316 GLAND	SALES NUMBER
M20	140120
1/2" NPT	140121



IDEM recommend using our Stainless Steel 316 Gland with this switch.

QUICK CONNECT:

Connector IP67



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

EX CLASSIFICATION:

Exd IIC T6 (-20 ≤ Ta ≤ +60C) Gb

Ex tb IIIC T85C (-20 ≤ Ta ≤ +60C) Db



EXPLOSION PROOF MODELS ALSO AVAILABLE.
SEE MODELS/PART NUMBERS MARKED WITH EX

TECHNICAL SPECIFICATIONS:

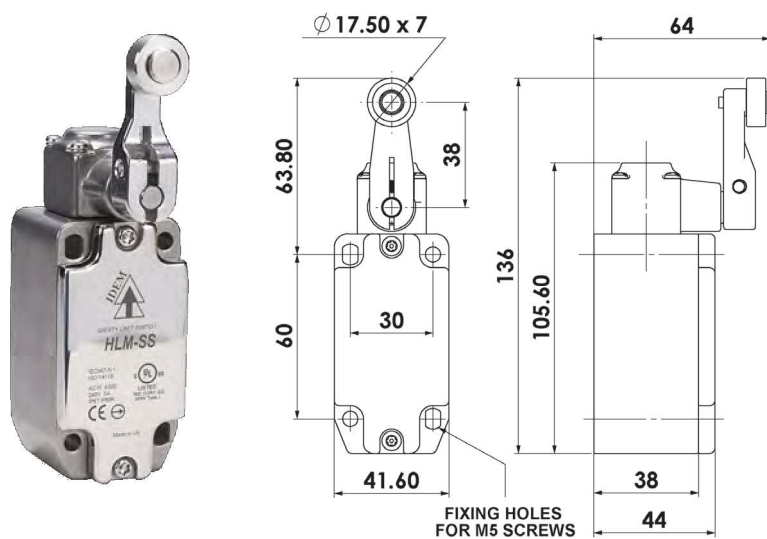
Standards: ISO14119 EN60947-5-1 EN60204-1
ISO13849-1 EN62061 UL 60947-5-1

Safety Classification and Reliability Data:

Mechanical Reliability B10d	2.5x10 ⁶ operations at 100mA load
ISO13849-1	Up to PLe depending upon system architecture
EN62061	Up to SIL3 depending upon system architecture
Safety Data - Annual Usage	8 cycles per hour/24 hours per day/365 days
	MTTFd 356 years
Positive Opening Operation	NC contacts
Utilisation Category	AC15 A300 240V 3A
Minimum Current	5V 5mA dc
Thermal Current (Ith)	10A
Rated Insulation Voltage	300Vac
Rated Impulse Withstand	2500Vac
Maximum Switching Speed	250mm/sec
Maximum Switching Frequency	6,000 operations per hour
Case Material	Stainless Steel 316
Enclosure Protection	IP67/IP69K
Operating Temperature	-25C to +80C
Mechanical Life Expectancy	5x10 ⁶ cycle min.
Electrical Life Expectancy	100,000 cycle min (at full load)
Vibration	IEC68-2-6 10-55Hz 0.35mm
Conductor Size	1.5mm ²
Fixing	M5 bolts

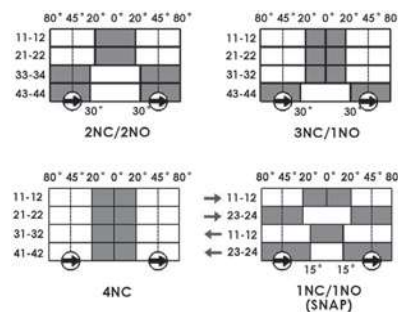
Safety Limit Switches: HLM-SS (S/Steel 316)

HLM-SS SHORT ROLLER LEVER:

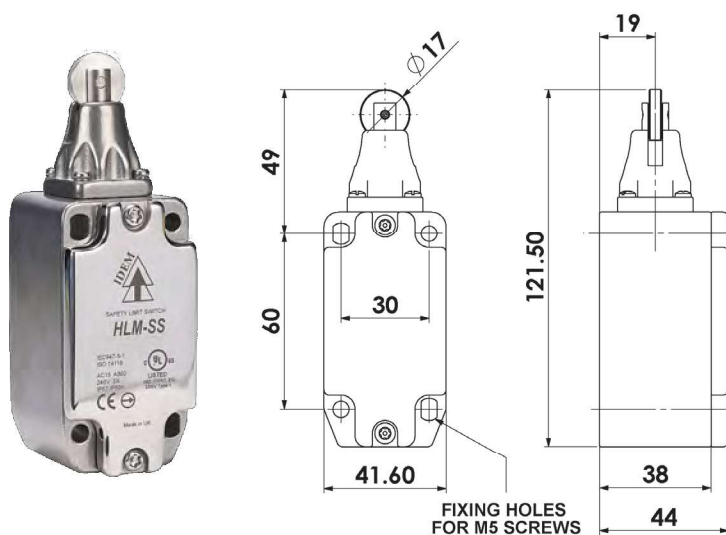


HLM-SS SHORT ROLLER LEVER	SALES NUMBERS		
	M20	1/2"NPT	QC M23
2NC 2NO	175001	175002	175003
3NC 1NO	175004	175005	175006
4NC	175007	175008	175009
1NC 1NO Snap	175010	175011	175012

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

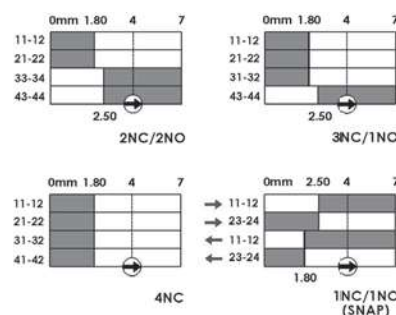


HLM-SS ROLLER PLUNGER:

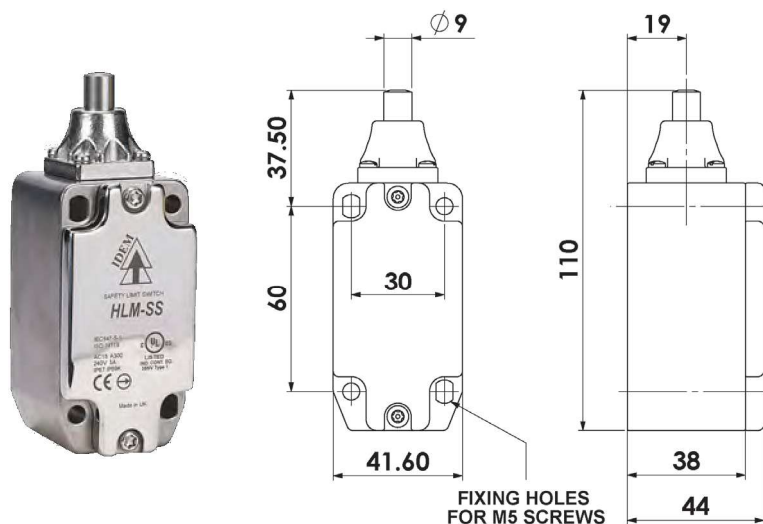


HLM-SS ROLLER PLUNGER	SALES NUMBERS		
	M20	1/2"NPT	QC M23
2NC 2NO	175051	175052	175053
3NC 1NO	175054	175055	175056
4NC	175057	175058	175059
1NC 1NO Snap	175060	175061	175062

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

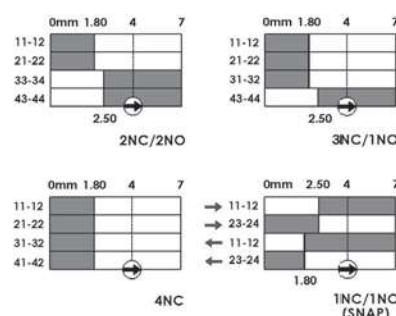


HLM-SS PIN PLUNGER:



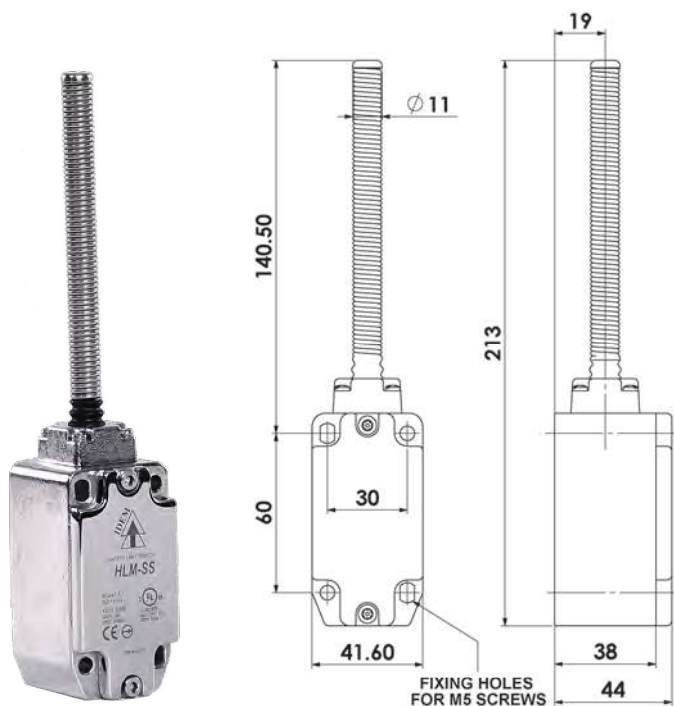
HLM-SS PIN PLUNGER	SALES NUMBERS		
	M20	1/2"NPT	QC M23
2NC 2NO	175101	175102	175103
3NC 1NO	175104	175105	175106
4NC	175107	175108	175109
1NC 1NO Snap	175110	175111	175112

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



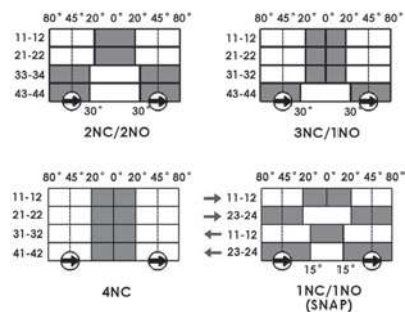
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HLM-SS SPRING LEVER:

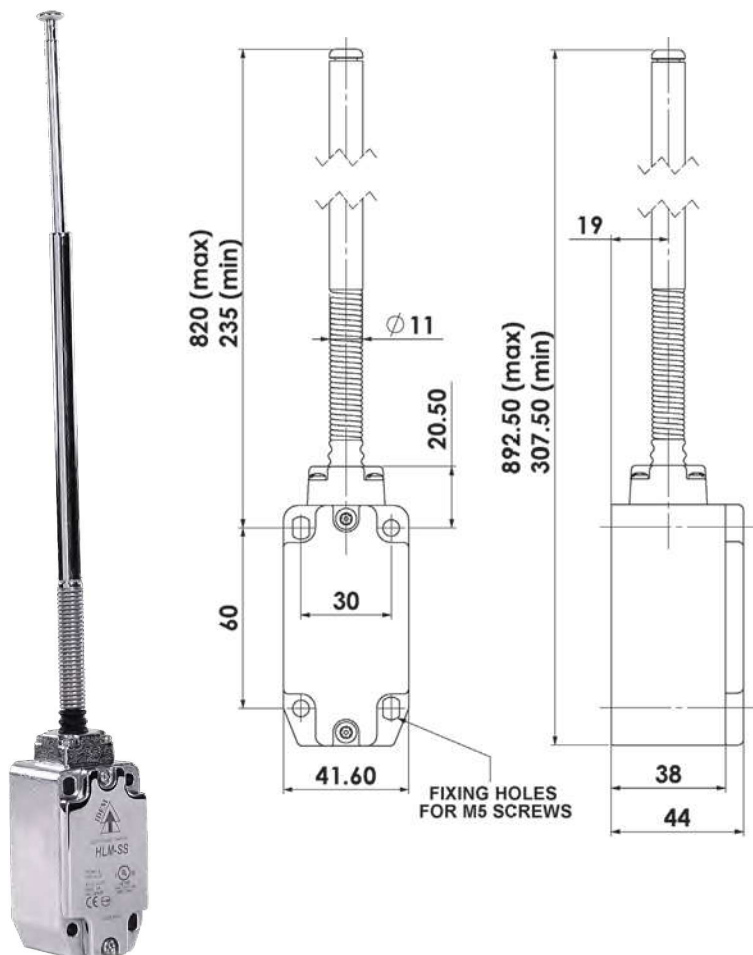


HLM-SS SPRING LEVER	SALES NUMBERS		
	M20	1/2"NPT	QC M23
2NC 2NO	175151	175152	175153
3NC 1NO	175154	175155	175156
4NC	175157	175158	175159
1NC 1NO Snap	175160	175161	175162

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

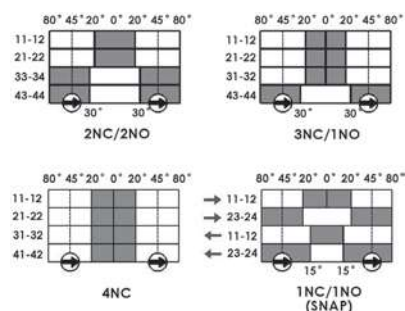


HLM-SS TELESCOPIC SPRING LEVER:



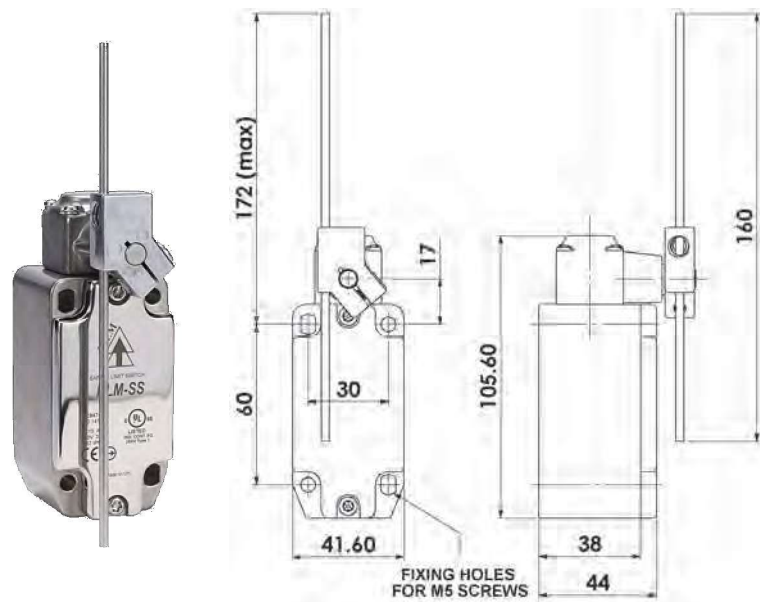
HLM-SS TELESCOPIC SPRING LEVER	SALES NUMBERS		
	M20	1/2"NPT	QC M23
2NC 2NO	175201	175202	175203
3NC 1NO	175204	175205	175206
4NC	175207	175208	175209
1NC 1NO Snap	175210	175211	175212

Gold Plated Contacts available for low power circuits (5V 5mA).
Ordering: Add GC to Part Number e.g. 175201-GC



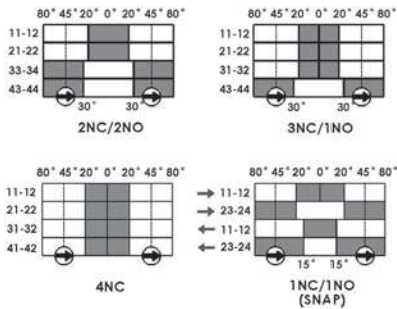
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HLM-SS LEVER ARM

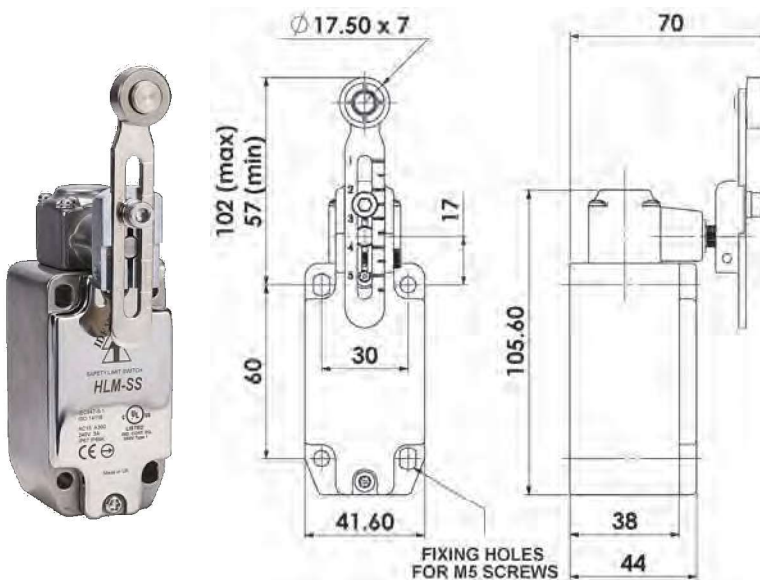


HLM-SS LEVER ARM	SALES NUMBERS		
	M20	1/2"NPT	QC M23
2NC 2NO	175251	175252	175253
3NC 1NO	175254	175255	175256
4NC	175257	175258	175259
1NC 1NO Snap	175260	175261	175262

Gold Plated Contacts available for low power circuits (5V 5mA).
Ordering: Add GC to Part Number e.g. 174151-GC



HLM-SS ADJUSTABLE ROLLER LEVER:



HLM-SS ADJUSTABLE ROLLER LEVER	SALES NUMBERS		
	M20	1/2"NPT	QC M23
2NC 2NO	175301	175302	175303
3NC 1NO	175304	175305	175306
4NC	175307	175308	175309
1NC 1NO Snap	175310	175311	175312

Gold Plated Contacts available for low power circuits (5V 5mA).
Ordering: Add GC to Part Number e.g. 174201-GC

