

Safety Limit Switches Type: LSPM (Plastic Body)

APPLICATION:

IDEM's range of LSPM Safety Limit Switches are 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 or roller plungers with either slow break or snap action contacts.



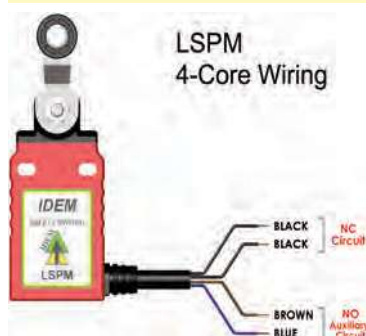
FEATURES:

- Standard Duty with plastic body (red colour)
- Positive opening NC safety contacts to EN60947-5-1
- High mechanical life over 5,000,000 cycles
- Enclosure protection to IP67 - suitable for washdown
- Unique 3 pole positively operated contacts
- Extensive choice of 7 actuator heads - linear and rotary
- Side or end cable exit available to assist with fitting
- Wide operating temperature range from -25C up to +80C

OPERATION:

Operation of LSPM Safety Limit 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.

WIRING:



ACTUATOR TYPES:

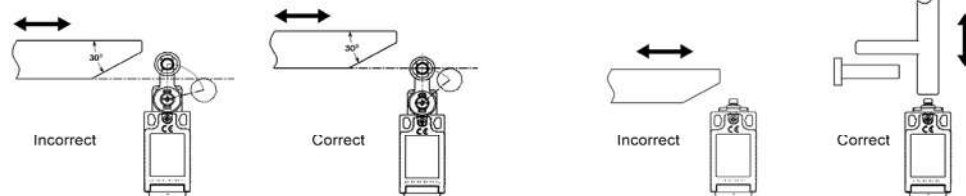
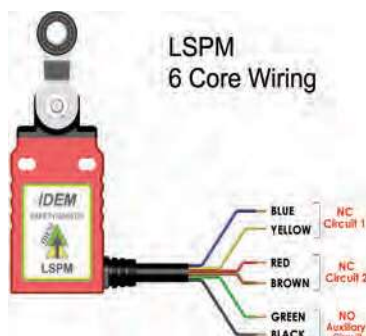
- PP Pin Plunger
 RP Roller Plunger
 CR Cross Roller Plunger
 RL Roller Lever
 PPP Panel Mount Pin Plunger
 PRP Panel Mount Roller Plunger
 PCR Panel Mount Cross Roller Plunger

CONTACT BLOCKS:

- 2NC 1NO Slow Break
 1NC 1NO Snap Action

CONDUIT EXIT:

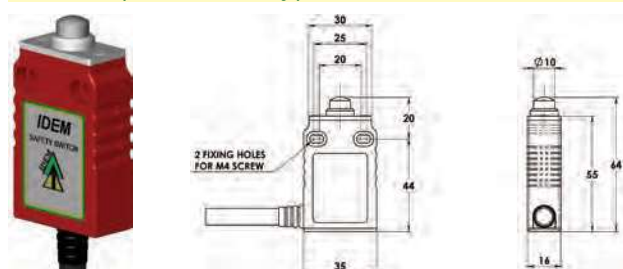
- S Side Exit version
 E End Exit version



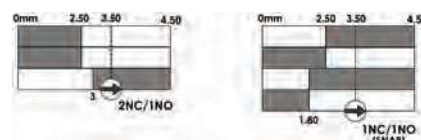
Standards: ISO14119 EN60947-5-1 UL 60947-5-1

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
Utilisation Category	AC15 A300 240V 3A
Thermal Current (Ith)	10A
Rated Insulation Voltage	300Vac
Rated Impulse Withstand	2500Vac
Insulation Resistance	100MΩ min.
Max. Switching Speed	250mm/sec
Max. Switching Frequency	6,000 operations per hr.
Case Material	Plastic
Roller Material	Various polymers
Enclosure Protection	IP67
Operating Temperature	-25C to +80C
Mechanical Life Expectancy	5,000,000
Vibration	IEC68-2-6 10-55Hz 0.35mm 1octave/min
Conductor Size	1.5mm ² 4 core or 6 core
Cable OD	8mm max.
Fixing	2xM4
Cable Length	2m

LSPM (Plastic Body) PIN PLUNGER:

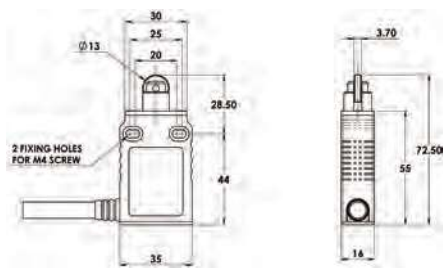


LSPM PIN PLUNGER	SALES NUMBERS	
Contacts	Cable Side Exit	Cable End Exit
2NC 1NO	170001	170003
1NC 1NO Snap	170002	170004

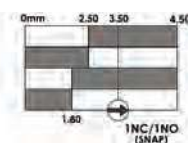
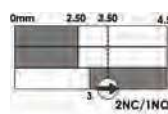


Safety Limit Switches Type: LSPM (Plastic Body)

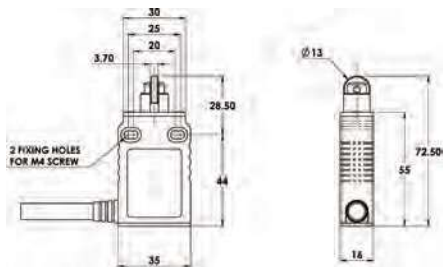
LSPM (Plastic Body) ROLLER PLUNGER:



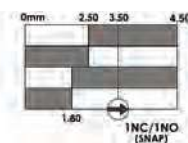
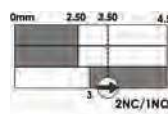
LSPM ROLLER PLUNGER	SALES NUMBERS	
Contacts	Cable Side Exit	Cable End Exit
2NC 1NO	170005	170007
1NC 1NO Snap	170006	170008



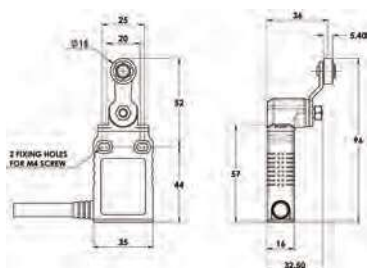
LSPM (Plastic Body) CROSS ROLLER PLUNGER:



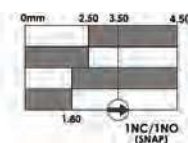
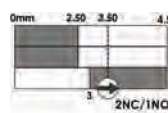
LSPM CROSS ROLLER PLUNGER	SALES NUMBERS	
Contacts	Cable Side Exit	Cable End Exit
2NC 1NO	170009	170010
1NC 1NO Snap	170011	170012



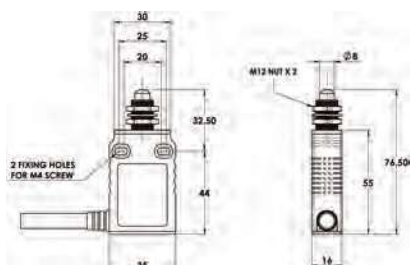
LSPM (Plastic Body) ROLLER LEVER:



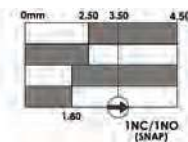
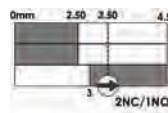
LSPM ROLLER LEVER	SALES NUMBERS	
Contacts	Cable Side Exit	Cable End Exit
2NC 1NO	170013	170014
1NC 1NO Snap	170015	170016



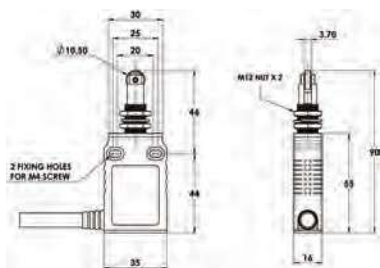
LSPM (Plastic Body) PANEL MOUNT PIN PLUNGER:



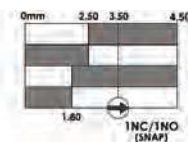
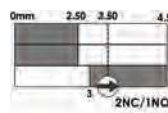
PANEL MOUNT PIN PLUNGER	SALES NUMBERS	
Contacts	Cable Side Exit	Cable End Exit
2NC 1NO	170017	170018
1NC 1NO Snap	170019	170020



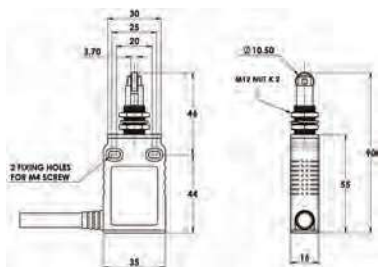
LSPM (Plastic Body) PANEL MOUNT ROLLER PLUNGER:



PANEL MOUNT ROLLER PLUNGER	SALES NUMBERS	
Contacts	Cable Side Exit	Cable End Exit
2NC 1NO	170021	170022
1NC 1NO Snap	170023	170024



LSPM (Plastic Body) PANEL MOUNT CROSS ROLLER PLUNGER:



PANEL MOUNT CROSS ROLLER PLUNGER	SALES NUMBERS	
Contacts	Cable Side Exit	Cable End Exit
2NC 1NO	170025	170026
1NC 1NO Snap	170027	170028

