

Latch key safety limit switches

Description

Safety limit switches with small latch (key), made of fiberglass reinforced UL-V0 thermoplastic material, offer double insulation and a degree of protection IP65. They are equipped with 1 N.C. + 1 N.O. or 2 N.C. contact blocks with dependent action and positive opening operation of the "N.C." contact(s).

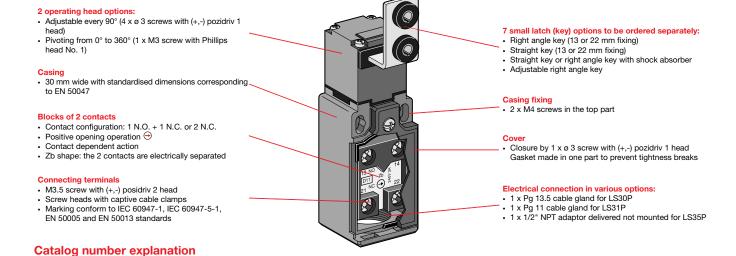
Applications

Easy to use, the limit switches with small latch (key) offer specific qualities:

- · Visible operation.
- Capability for strong current switching (conventional thermal current 10 A).
- Opening guaranteed of the "N.C." contact(s) when the small latch is withdrawn from the limit switch.
- Contact blocks with dependent action and positive opening operation of the "N.C." normally closed contact(s) (symbol).
- Electrically separated contacts (Zb shape).
- Precision on operation positions (consistency).
- Immunity to electromagnetic disturbances.

These specific features make the limit switches ideal for monitoring and protection of industrial machines without inertia in which downtime is less than access time to the dangerous area. Use on sliding or pivoting protectors (covers, cases, doors, grids, etc.).

- They contribute to protection of operators working on dangerous machines, by opening the control circuit. Withdrawal of the small latch (key) by opening the mobile protector causes immediate stopping of the machine drive.
- Associated with other standard limit switches and safety switching devices, they produce automatic control circuits meeting standard EN 954-1.
- They comply with the requirements of European Directives (Low Voltage, Machines and Electromagnetic Compatibility) and are conform to European and international standards.



LS 35 P 80 D 11 - S Example: Limit Switch..... SSafety device Casing width: 30 mm.... Contact types: 11 1 N.O. + 1 N.C. contacts 1 cable inlet for Pg 13.5 cable gland 02 2 N.C. contacts 1 x 1/2" NPT (adaptor) cable inlet Snap action: ...Zb Snap Plastic casing.. Dependent (slow) action:Zb Slow / Simultaneous Adjustable every 90°. ..Zb Non-overlapping late make Continuously pivoting from 0° to 360°..... CZb Overlapping early make

Low Voltage Products & Systems 9.73

Safety Limit Switches with Small Latch (Key)

Double Insulation - Plastic Casing NEMA-1 - 30 and 40 mm Width Metal Casing NEMA-4X - 30 and 40 mm Width

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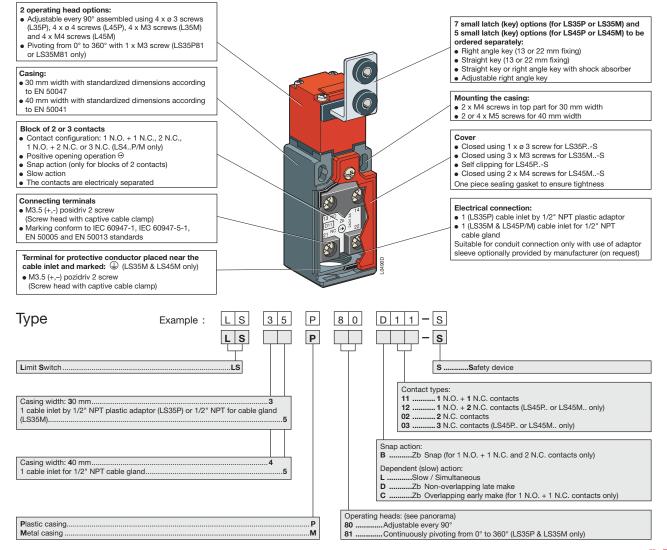
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Description

LS35P..-S (30 mm width) and LS45P..-S (40 mm width) safety limit switches with key, which are made of fibre-glass reinforced UL-V0 thermoplastic material, offer double insulation and a degree of protection NEMA-1.

LS35M..-S (30 mm width) safety limit switches with key, which are made of zinc alloy (zamak), have a degree of protection NEMA-4X.

LS45M..-S (40 mm width) safety limit switches with key, which are made of aluminium alloy, have a degree of protection NEMA-4X.





Safety Limit Switches with Small Latch (Key)

Metal Casing NEMA-4X - 30 and 40 mm Width Plastic Casing NEMA-1 - 30 and 40 mm Width



LS35P80D11-9



LS35M80D11-S



LS45P80D12-S





LS35P: 1 cable inlet by 1/2" NPT plastic adaptor LS35M: 1 cable inlet for 1/2" NPT cable gland

Plastic Casing - NEMA-1 - 30 mm Width Metal Casing - NEMA-4X - 30 mm Width

Ordering Details - Product without Small Latch (Key)

Contact blocks		Catalog number	List price			
13 21 Zb	12 21 12 22					
D11	L02					
Plastic Limit Switches with Adjustable Head Every 90°						
1	-	LS35P80D11-S				
-	1	LS35P80L02-S				
Metal Limit Switches with Adjustable Head Every 90°						
1	-	LS35M80D11-S				
-	1	LS35M80L02-S				

LS45M: 1 cable inlet for 1/2" NPT cable gland

Ordering Details - Product without Small Latch (Key)

Contact blocks 3	11 21 31 1 1 1 1 2 1 31 1 1 1 1 2 1 32 1 1 1 2 1 2	Catalog number	List price		
Plastic Limit Switches with Adjustable Head Every 90°					
1	-	LS45P80D12-S			
-	1	LS45P80L03-S			
Metal Limit Switches with Adjustable Head Every 90°					
1	-	LS45M80D12-S			
-	1	LS45M80L03-S			

Ordering Details - Small Latch (Key)

Description of key	Fixing mm	Catalog number	List price
Small Latch (Keys) for LS3.	.P or LS3M		
Right angle key	13	LSA30P05	
Straight key	13	LSA30P06	
Right angle key with shock absorber	15	LSA30P07	
Straight key with shock absorber	15	LSA30P08	
Adjustable angle key	40	LSA30P09	
Small Latch (Keys) for LS4.	.P or LS4M		
Right angle key	13	LSA40X05	
Straight key	13	LSA40X06	
Right angle key with shock absorber	15	LSA40X07	
Straight key with shock absorber	15	LSA40X08	
Adjustable angle key	40	LSA40X09	

