LS3..P.., LS4..P.. and LS7..P.. Limit Switches

Double Insulation ⧈ - Plastic Casing IP65

Applications

Easy to use, electromechanical limit switches offer specific qualities:

- Visible operation.
- Able to switch strong currents (10 A conventional thermal current).
- Electrically separated contacts.
- Contact blocks with positive opening operation of the "N.C." normally closed contact(s) (symbol ⊖).
- Precise operating points (consistency).
- Immune to electromagnetic disturbances.

They are exceptional detection devices thanks to these characteristics:

- Presence/absence.
- Positioning and travel limit.
- Objects passing/counting.

Description

LS3..P..., **LS4..P...** and **LS7..P...**, limit switches, which are made of fibre-glass reinforced UL-V0 thermoplastic material, offer double insulation ⧈ and a degree of protection IP65.

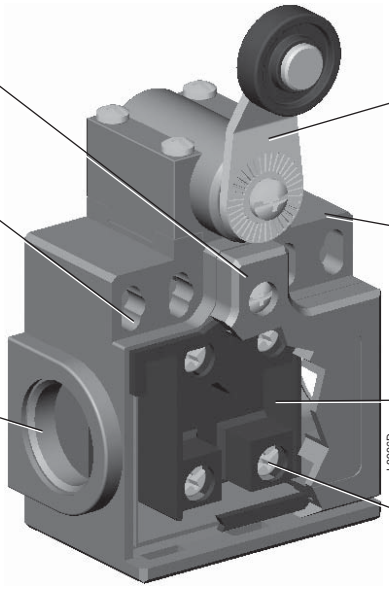
The casings come in 3 dimensions: **LS3..P...** 30 mm width, **LS4..P...** 40 mm width, **LS7..P...** 60 mm width.

Cover:
- Closed using 1 x ø3 screw for 30 & 60 mm width
- Self clipping closure for 40 mm width

One piece sealing gasket to ensure tightness

Mounting the casing:
- 2 x M4 screws for 30 mm width
- 2 or 4 x M5 screws for 40 mm width
- 2 or 4 x M4 screws for 60 mm width

Electrical connection:
- 1 (LS30P), 1 (LS40P) or 2 (LS70P) cable inlets for Pg 13.5 cable gland
- 1 (LS31P) or 2 (LS71P) cable inlets for Pg 11 cable gland
- 1 (LS32P) or 2 (LS72P) cable inlets for ISO 16 cable gland
- 1 (LS33P), 1 (LS43P) or 2 (LS73P) cable inlets for ISO 20 cable gland
- 1 (LS35P) cable inlet by 1/2" NPT plastic adaptor
- 1 (LS45P) cable inlet for 1/2" NPT cable gland
- 1 (LS75P) cable inlet by 1/2" NPT plastic adaptor + 1 cable inlet Pg11 for additional 1/2" NPT plastic adaptor (on request)
- Suitable for conduit connection only with use of adaptor sleeve optionally provided by manufacturer. (on request)



A variety of operating heads:
- Plain plunger
- Roller plunger
- Roller lever, adjustable or not, etc.

Assembled using 4 x ø3 screws for 30 & 60 mm width
Assembled using 4 x ø4 screws for 40 mm width

Casing:
- 30 mm width with standardized dimensions according to EN 50047
- 40 mm width with standardized dimensions according to EN 50041
- 60 mm width compatible with EN 50047 (Fixing)

Block of 2 contacts:
- Contact configuration: 1 N.O. + 1 N.C., 2 N.O., 2 N.C.
- Positive opening operation ⊖
- Snap action or slow action
- The 2 contacts are electrically separated

Connecting terminals:
- M3.5 (+,–) pozidriv 2 screw (Screw head with captive cable clamp)
- Markings conform with IEC 60947-1, IEC 60947-5-1, EN 50005 and EN 50013 standards

Type

Example: L S | 7 2 | P | 4 1 | B 1 1

L S

Limit **S**witch ..... **LS**

Casing width: **3**0 mm **3**
1 cable inlet for Pg 13.5 cable gland **0**
1 cable inlet for Pg 11 cable gland **1**
1 cable inlet M16 x 1.5 for ISO 16 cable gland **2**
1 cable inlet M20 x 1.5 for ISO 20 cable gland **3**
1 cable inlet by 1/2" NPT plastic adaptor delivered not mounted **5**

Casing width: **4**0 mm **4**
1 cable inlet for Pg 13.5 cable gland **0**
1 cable inlet M20 x 1.5 for ISO 20 cable gland **3**
1 cable inlet for 1/2" NPT cable gland **5**

Casing width: **6**0 mm **7**
2 cable inlets for Pg 13.5 cable gland **0**
2 cable inlets for Pg 11 cable gland **1**
2 cable inlets M16 x 1.5 for ISO 16 cable gland **2**
2 cable inlets M20 x 1.5 for ISO 20 cable gland **3**
1 cable inlet by 1/2" NPT plastic adaptor + 1 cable inlet Pg 11 for additional 1/2" NPT plastic adaptor (on request) **5**

Contact types:
11 ..... **1** N.O. + **1** N.C. contacts
20 ..... **2** N.O. contacts
02 ..... **2** N.C. contacts

Snap action:
B .....Zb Snap (except for 2 N.O. contacts)

Dependent (slow) action:
L.....Slow / Simultaneous
D.....Zb Non-overlapping late make
C.....Zb Overlapping early make

Operating heads: (see panorama)
10 ... **98** ..... Codes

P ..... **P**lastic casing

LS3..P.. Limit Switches

Double Insulation ⧈ - Plastic Casing IP65 - 30 mm Width

LS30P11B11

LS30P31B11

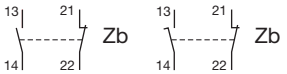
LS30P41B11

LS30P52B11

LS30P91B11

LS30P: 1 cable inlet for Pg 13.5 cable gland ..... 0 ..... 0 2
LS31P: 1 cable inlet for Pg 11 cable gland ..... 1 ..... 0 1
LS32P: 1 cable inlet for ISO 16 cable gland..... 2 ..... 0 3
LS33P: 1 cable inlet for ISO 20 cable gland..... 3 ..... 2 2
LS35P: 1 cable inlet by 1/2" NPT plastic adaptor .. 5 ..... 2 1

Ordering Details

Contact blocks		Type	Order code	Weight kg (1)
		state cable inlet code ☐	state cable inlet code ☐☐	Packing 1 piece
B11	D11			
Steel plain plunger (zinc plated)				
1	-	LS3 ☐ P11B11	1SBV01 ☐☐ 11R1211	0.070
-	1	LS3 ☐ P11D11	1SBV01 ☐☐ 11R1411	0.070
ø11 plastic (polyacetal) **roller plunger**				
1	-	LS3 ☐ P13B11	1SBV01 ☐☐ 13R1211	0.070
-	1	LS3 ☐ P13D11	1SBV01 ☐☐ 13R1411	0.070
ø12.5 plastic (polyacetal) **roller lever on steel plunger** (zinc plated) **horizontal action**				
1	-	LS3 ☐ P31B11	1SBV01 ☐☐ 31R1211	0.070
-	1	LS3 ☐ P31D11	1SBV01 ☐☐ 31R1411	0.070
ø12.5 plastic (polyacetal) **roller lever on steel plunger** (zinc plated) **vertical action**				
1	-	LS3 ☐ P32B11	1SBV01 ☐☐ 32R1211	0.075
-	1	LS3 ☐ P32D11	1SBV01 ☐☐ 32R1411	0.075
ø18 plastic (polyacetal) **roller lever**				
1	-	LS3 ☐ P41B11	1SBV01 ☐☐ 41R1211	0.090
-	1	LS3 ☐ P41D11	1SBV01 ☐☐ 41R1411	0.090
ø50 rubber roller lever				
1	-	LS3 ☐ P42B11	1SBV01 ☐☐ 42R1211	0.120
-	1	LS3 ☐ P42D11	1SBV01 ☐☐ 42R1411	0.120
Adjustable ø18 plastic (polyacetal) **roller lever**				
1	-	LS3 ☐ P51B11	1SBV01 ☐☐ 51R1211	0.100
-	1	LS3 ☐ P51D11	1SBV01 ☐☐ 51R1411	0.100
Adjustable ø50 rubber roller lever				
1	-	LS3 ☐ P52B11	1SBV01 ☐☐ 52R1211	0.130
-	1	LS3 ☐ P52D11	1SBV01 ☐☐ 52R1411	0.130
Adjustable ø3 fibre-glass rod lever				
1	-	LS3 ☐ P72B11	1SBV01 ☐☐ 72R1211	0.100
-	1	LS3 ☐ P72D11	1SBV01 ☐☐ 72R1411	0.100
Spring rod				
1	-	LS3 ☐ P91B11	1SBV01 ☐☐ 91R1211	0.080
-	1	LS3 ☐ P91D11	1SBV01 ☐☐ 91R1411	0.080

(1) For LS35P add 0.007 kg