

# Limit Switches - Limit Type Metal Body IP66

CARLO GAVAZZI



- High mechanical resistance
- Degree of protection IP66
- Aluminium body
- Positive Opening Operation ➞
- Minimum Actuation Force/Torque
- Minimum Force to achieve Positive Opening Operation
- Precise operating points (consistency)
- Immune to electromagnetic disturbances
- Zb type contact blocks
- Current Ith = 10A
- Rated insulation voltage Ui = 500V
- UL, CSA, CE
- Conform with IEC 947-5-1 (EN 60947-5-1)

## Product Description

They are developed in order to be used for following operations:

- Presence/Absence
- Positioning and travel limit
- Objects passing/counting

## Ordering Key

**PS43L-PS11RT-M00**

Body

Cable Gland

Contact block

Head type

Material of body and head

Options

## Description of the key codes

### Body

PS43L | PS 60mm (fix 40/42mm) 3 cable inlet for General Purpose

### Cable Gland

M | M20  
P | PG13.5  
N | 1/2 NPT

### Contact block

O11 | 1NO+1NC overlap slow(+)  
S02 | 2NC snap(+)  
S11 | 1NO+1NC snap(+)  
T02 | 2NC slow(+)  
T03 | 3NC slow(+)  
T11 | 1NO+1NC slow(+)  
T12 | 1NO+2NC slow(+)  
T20 | 2NO slow  
T21 | 2NO+1NC slow(+)  
T30 | 3NO slow

### Material of body and head

M | Metal Body and Metal head

### Options

00 | no option

### Head type

L3 | adj square (3x3) steel rod LEVER  
LA | adj Ø3 rod LEVER stainless steel rod  
LB | nylon actuator with stainless steel spring  
LF | adj fiberglass rod LEVER Ø3  
LG | adj fiberglass rod LEVER Ø6  
LN | adj nylon rod LEVER  
LP | multidir nylon actuator with stainless steel spring  
LS | stainless steel spring multidir actuator  
LW | Stainless stell spring multidir actuator (cat Whisker)  
LZ | Stainless stell spring actuator  
N6 | pull wire for simple stop  
P0 | metal plain PLUNGER  
PB | steel ball PLUNGER  
PR | metal roller PLUNGER  
R1 | adj LEVER with nylon roller  
R2 | adj LEVER with stainless stell roller  
R3 | adj LEVER with stell ball bearing  
RB | one way LEVER steel ball bearing  
RH | plastic roller LEVER on metal PLUNGER (left)  
RK | one way LEVER stainless steel roller  
RO | roller LEVER steel ball bearing  
RS | metal roller LEVER  
RT | nylon roller LEVER  
SH | stainless steel lateral PLUNGER with horizontal roller  
SP | stainless steel lateral plain PLUNGER  
SV | stainless steel lateral PLUNGER with vertical roller  
W0 | Ø50 rubber roller LEVER  
W1 | adj LEVER with Ø50 rubber roller

# Technical Data

## Standards

### Certifications – Approvals

**Air temperature** near the device

- during operation °C
- for storage °C

### Climatic withstand Mounting positions

**Shock withstand** (according to IEC 68-2-27 and 60068-2-27) g  
(1/2sinusoidal shock for 11 ms) no change in contact position

**Resistance to vibrations** (acc.to IEC 68-2-6 and EN 60068-2-6) g

**Protection against electrical shocks** (acc.to IEC 536)

**Degree of protection** (according to IEC 529 and EN 60529)

**Consistency** (measured over 1 million operations)

IEC 60947-1, IEC 60947-5-1, EN 60947-1, EN 60947-5-1,  
UL508 and CSA C22-2 n°14  
UL – CSA

-25 ... +70

-30 ... +80

According to IEC 68-2-3 and salty mist according to IEC 68-2-11  
All positions are authorized

50g\*

25g (10...500Hz) no change in position of contacts greater than 100µs

**Class I**

**IP66**

**0.1 mm** (upon closing point)

\* except for PS21/PS42 with head type W0, W1: 25g.

# Electrical Data

## Rated insulation voltage $U_i$

-according to IEC 60947-1 and EN 60947-1

-according to UL 508, CSA C22-2 n°14

**Rated impulse withstand voltage  $U_{imp}$**  kV

(according to IEC 60947-1 and EN 60947-1)

**Conventional enclosed thermal current  $I_{the}$**  A

(according to IEC 60947-5-1 and EN 60947-5-1) ( $\theta \leq 40^\circ\text{C}$ )

**Short-circuit protection - gG type fuses** A

## Rated operational current

**$I_e$  / AC-15** - acc.to IEC 60947-5-1

|                   |   |
|-------------------|---|
| 24Vac (50/60 Hz)  | A |
| 130Vac (50/60 Hz) | A |
| 230Vac (50/60 Hz) | A |
| 240Vac (50/60 Hz) | A |
| 400Vac (50/60 Hz) | A |

- acc.to UL 508, CSA C22 n°14

**$I_e$  / DC-13** - acc.to IEC 60947-5-1

|        |   |
|--------|---|
| 24Vdc  | A |
| 110Vdc | A |
| 250Vdc | A |

- acc.to UL 508, CSA C22 n°14

**Electrical durability** (according to IEC 60497-5-1 annex C)

- max. switching frequency Cycles/h
- load factor

## Connecting data of contact blocks

Connecting terminals

Connecting capacity 1 or 2 x mm<sup>2</sup> / AWG

Terminal marking

**Positivity**

**400V** (PS21, PS42), **500V** (PS31, PS43) (degree of pollution 3)

**A 300 Q 300** (PS21, PS42), **A 600 Q 600** (PS31, PS43)

**6**

**10**

**10**

**10**

**5.5**

**3.1**

**3**

**1.8**

**A 300** (PS21, PS42), **A 600** (PS31, PS43)

**2.8**

**0.6**

**0,27**

**Q 300** (PS21, PS42), **Q 600** (PS31, PS43)

Utilization categories AC-15 and DC-13 (see curves and value below)

**3600**

**0,5**

**M3,5 (+,-) pozidriv 2 screw with cable clamp**

**0,5mm<sup>2</sup> / AWG 20 to 2,5mm<sup>2</sup> / AWG 14**

**According to EN 50013**

Contacts with positive opening operation as per IEC 60947-5-1 chapter 3

Diagram for snap action contact:

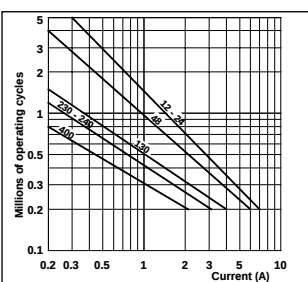
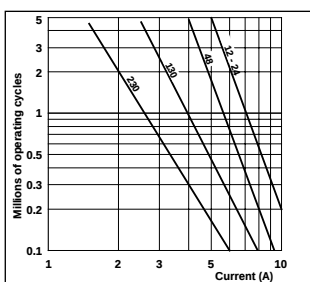


Diagram for slow action contact:



## Electrical durability for DC-13 utilization category

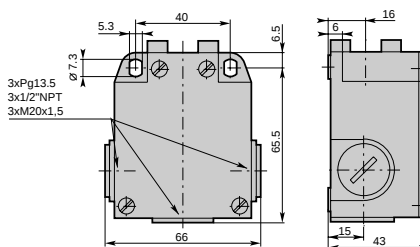
| Power breaking for a durability of 5 million operating cycles |             |             |
|---------------------------------------------------------------|-------------|-------------|
|                                                               | Snap action | Slow action |
| Voltage 24V                                                   | 9,5W        | 12W         |
| Voltage 48V                                                   | 6,8W        | 9W          |
| Voltage 110V                                                  | 3,6W        | 6W          |

# Limit Switches - Limit Type (PS43) Metal Body IP66

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## ■ Cable Gland

**P** = Three cable inlet PG13.5 cable gland  
**M** = Three cable inlet M20x1.5 cable gland  
**N** = Three cable inlet 1/2" NPT cable gland



## ▲ Contact block (Zb type)

(mm)

|                                     |                                                        |                                                        |                                                 |                                                 |
|-------------------------------------|--------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| <b>S11</b> (1NO+1NC)<br>Snap action | <b>T11</b> (1NO+1NC)<br>Non overlapping<br>Slow action | <b>O11</b> (1NO+1NC)<br>Overlapping<br>Slow action     | <b>T02</b> (2NC)<br>Slow Action                 | <b>T20</b> (2NO)<br>Slow action                 |
| <b>S02</b> (2NC)<br>Snap action     | <b>T12</b> (1NO+2NC)<br>Non overlapping<br>Slow action | <b>T21</b> (2NO+1NC)<br>Non overlapping<br>Slow action | <b>T03</b> (3NC)<br>Simultaneous<br>Slow action | <b>T30</b> (3NO)<br>Simultaneous<br>Slow action |

|  |  |                                    |                                    |                                |                                |
|--|--|------------------------------------|------------------------------------|--------------------------------|--------------------------------|
|  |  | <b>S11</b><br>0 1.8 3.0 4.6 6.0 mm | <b>T11</b><br>0 2.1 3.7 6.0 mm     | <b>O11</b><br>0 3.4 5.0 6.0 mm | <b>T02</b><br>0 2.0 3.6 6.0 mm |
|  |  | <b>T20</b><br>0 1.9 6.0 mm         | <b>S02</b><br>0 1.8 2.9 4.5 6.0 mm | <b>T12</b><br>0 2.0 3.5 6.0 mm | <b>T21</b><br>0 2.1 3.6 6.0 mm |
|  |  | <b>T03</b><br>0 2.0 3.5 6.0 mm     | <b>T30</b><br>0 2.3 6.0 mm         |                                |                                |

**Conformity** / (NC) /   
**Max. Actuation speed** 0.5ms  
**Min. force or torque** 30N / 45Nm  
**Weight** 265g

**Stainless steel plain plunger**  
**Code**

PS43L- P0-M00

|  |  |                                    |                                    |                                |                                |
|--|--|------------------------------------|------------------------------------|--------------------------------|--------------------------------|
|  |  | <b>S11</b><br>0 1.8 3.0 4.6 6.0 mm | <b>T11</b><br>0 2.1 3.7 6.0 mm     | <b>O11</b><br>0 3.4 5.0 6.0 mm | <b>T02</b><br>0 2.0 3.6 6.0 mm |
|  |  | <b>T20</b><br>0 1.9 6.0 mm         | <b>S02</b><br>0 1.8 2.9 4.5 6.0 mm | <b>T12</b><br>0 2.0 3.5 6.0 mm | <b>T21</b><br>0 2.1 3.6 6.0 mm |
|  |  | <b>T03</b><br>0 2.0 3.5 6.0 mm     | <b>T30</b><br>0 2.3 6.0 mm         |                                |                                |

**Conformity** / (NC) /   
**Max. Actuation speed** 0.5ms  
**Min. force or torque** 30N / 45Nm  
**Weight** 265g

**Stainless steel ball plunger**  
**Code**

PS43L- PB-M00

|  |  |                                     |                                     |                                 |                                 |
|--|--|-------------------------------------|-------------------------------------|---------------------------------|---------------------------------|
|  |  | <b>S11</b><br>0 3.1 5.3 8.2 10.5 mm | <b>T11</b><br>0 4.0 6.9 10.5 mm     | <b>O11</b><br>0 6.0 8.9 10.5 mm | <b>T02</b><br>0 3.7 6.6 10.5 mm |
|  |  | <b>T20</b><br>0 3.5 10.5 mm         | <b>S02</b><br>0 3.1 5.1 8.0 10.5 mm | <b>T12</b><br>0 3.8 6.3 10.5 mm | <b>T21</b><br>0 3.9 6.4 10.5 mm |
|  |  | <b>T03</b><br>0 3.8 6.3 10.5 mm     | <b>T30</b><br>0 4.3 10.5 mm         |                                 |                                 |

**Conformity** / (NC) /   
**Max. Actuation speed** 0.5ms  
**Min. force or torque** 22N / 40Nm  
**Weight** 270g

**Stainless steel Ø12 roller plunger**  
**Code**

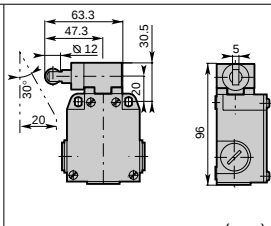
PS43L- PR-M00

|  |  |                                    |                                    |                                |                                |
|--|--|------------------------------------|------------------------------------|--------------------------------|--------------------------------|
|  |  | <b>S11</b><br>0 2.0 3.2 4.8 6.0 mm | <b>T11</b><br>0 2.3 3.9 6.0 mm     | <b>O11</b><br>0 3.6 5.2 6.0 mm | <b>T02</b><br>0 2.2 3.8 6.0 mm |
|  |  | <b>T20</b><br>0 2.1 6.0 mm         | <b>S02</b><br>0 2.0 3.1 4.7 6.0 mm | <b>T12</b><br>0 1.4 2.9 6.0 mm | <b>T21</b><br>0 1.5 3.0 6.0 mm |
|  |  | <b>T03</b><br>0 1.4 2.9 6.0 mm     | <b>T30</b><br>0 1.9 6.0 mm         |                                |                                |

**Conformity** / (NC) /   
**Max. Actuation speed** 0.5ms  
**Min. force or torque** 30N / 50Nm  
**Weight** 285g

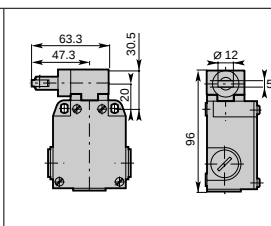
**Stainless steel lateral plain plunger**  
**Code**

PS43L- SP-M00

|                                                                                   |                                                                                   |                                                                |                                                                         |                                                          |                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|
|  |  | <b>S11</b><br>0 3.7 5.9 8.8 10.2 mm<br>21-22<br>13-14<br>13-14 | <b>T11</b><br>0 4.6 7.5 10.2 mm<br>21-22<br>13-14<br>6.0                | <b>O11</b><br>0 6.6 9.5 10.2 mm<br>21-22<br>13-14<br>4.3 | <b>T02</b><br>0 4.3 7.2 10.2 mm<br>11-12<br>21-22                 |
|                                                                                   |                                                                                   | <b>T20</b><br>0 4.1 10.2 mm<br>13-14<br>23-24                  | <b>S02</b><br>0 3.5 5.7 8.6 10.2 mm<br>11-12<br>21-22<br>11-12<br>21-22 | <b>T12</b><br>0 3.5 6.1 10.2 mm<br>21-22<br>13-14<br>6.2 | <b>T21</b><br>0 3.6 6.2 10.2 mm<br>31-32<br>13-14<br>23-24<br>6.2 |
|                                                                                   |                                                                                   | <b>T03</b><br>0 3.5 6.1 10.2 mm<br>11-12<br>21-22<br>31-32     | <b>T30</b><br>0 4.0 10.2 mm<br>13-14<br>23-24<br>33-34                  |                                                          |                                                                   |

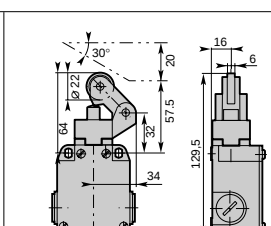
Conformity /  $\rightarrow$  (NC) /  $\rightarrow$   
 Max. Actuation speed 0.5ms  
 Min. force or torque 30N / 50Nm  
 Weight 290g

Stainless steel lateral plunger with Ø12 vertical roller  
 Code PS43L- $\square$  $\blacktriangle$ SV-M00

|                                                                                   |                                                                                   |                                                                |                                                                         |                                                          |                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|
|  |  | <b>S11</b><br>0 3.7 5.9 8.8 10.2 mm<br>21-22<br>13-14<br>13-14 | <b>T11</b><br>0 4.6 7.5 10.2 mm<br>21-22<br>13-14<br>6.0                | <b>O11</b><br>0 6.6 9.5 10.2 mm<br>21-22<br>13-14<br>4.3 | <b>T02</b><br>0 4.3 7.2 10.2 mm<br>11-12<br>21-22                 |
|                                                                                   |                                                                                   | <b>T20</b><br>0 4.1 10.2 mm<br>13-14<br>23-24                  | <b>S02</b><br>0 3.5 5.7 8.6 10.2 mm<br>11-12<br>21-22<br>11-12<br>21-22 | <b>T12</b><br>0 3.5 6.1 10.2 mm<br>21-22<br>13-14<br>6.2 | <b>T21</b><br>0 3.6 6.2 10.2 mm<br>31-32<br>13-14<br>23-24<br>6.2 |
|                                                                                   |                                                                                   | <b>T03</b><br>0 3.5 6.1 10.2 mm<br>11-12<br>21-22<br>31-32     | <b>T30</b><br>0 4.0 10.2 mm<br>13-14<br>23-24<br>33-34                  |                                                          |                                                                   |

Conformity /  $\rightarrow$  (NC) /  $\rightarrow$   
 Max. Actuation speed 0.5ms  
 Min. force or torque 30N / 50Nm  
 Weight 290g

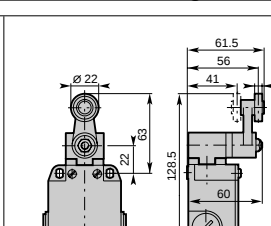
Stainless steel lateral plunger with Ø12 horizontal roller  
 Code PS43L- $\square$  $\blacktriangle$ SH-M00

|                                                                                     |                                                                                     |                                                                 |                                                                          |                                                           |                                                                   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------|
|  |  | <b>S11</b><br>0 3.1 6.3 10.8 15.5 mm<br>21-22<br>13-14<br>13-14 | <b>T11</b><br>0 4.5 9.0 15.5 mm<br>21-22<br>13-14<br>6.1                 | <b>O11</b><br>0 7.2 11.7 15.5 mm<br>21-22<br>13-14<br>4.0 | <b>T02</b><br>0 4.0 9.5 15.5 mm<br>11-12<br>21-22                 |
|                                                                                     |                                                                                     | <b>T20</b><br>0 3.6 15.5 mm<br>13-14<br>23-24                   | <b>S02</b><br>0 3.1 6.1 10.6 15.5 mm<br>11-12<br>21-22<br>11-12<br>21-22 | <b>T12</b><br>0 4.6 8.4 15.5 mm<br>21-22<br>13-14<br>8.6  | <b>T21</b><br>0 4.7 8.5 15.5 mm<br>31-32<br>13-14<br>23-24<br>8.6 |
|                                                                                     |                                                                                     | <b>T03</b><br>0 4.6 8.4 15.5 mm<br>11-12<br>21-22<br>31-32      | <b>T30</b><br>0 4.9 15.5 mm<br>13-14<br>23-24<br>33-34                   |                                                           |                                                                   |

Conformity /  $\rightarrow$  /  $\rightarrow$   
 Max. Actuation speed 1.5ms  
 Min. force or torque 12N / 40Nm  
 Weight 305g

One way lever  
 Code Ø22 nylon roller  
 Ø22 stainless steel roller  
 Ø22 steel ball bearing

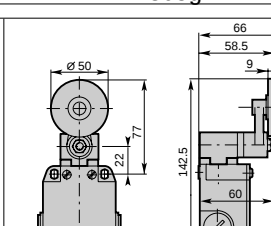
PS43L- $\square$  $\blacktriangle$ RH-M00  
 PS43L- $\square$  $\blacktriangle$ RK-M00  
 PS43L- $\square$  $\blacktriangle$ RB-M00

|                                                                                     |                                                                                     |                                                            |                                                                     |                                                      |                                                               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|
|  |  | <b>S11</b><br>0 20° 33° 49° 78°<br>21-22<br>13-14<br>13-14 | <b>T11</b><br>0 22° 38° 78°<br>21-22<br>13-14<br>33°                | <b>O11</b><br>0 37° 53° 78°<br>21-22<br>13-14<br>21° | <b>T02</b><br>0 21° 37° 78°<br>11-12<br>21-22                 |
|                                                                                     |                                                                                     | <b>T20</b><br>0 20° 78°<br>13-14<br>23-24                  | <b>S02</b><br>0 20° 32° 48° 78°<br>11-12<br>21-22<br>11-12<br>21-22 | <b>T12</b><br>0 18° 35° 78°<br>21-22<br>13-14<br>37° | <b>T21</b><br>0 19° 36° 78°<br>31-32<br>13-14<br>23-24<br>37° |
|                                                                                     |                                                                                     | <b>T03</b><br>0 18° 35° 78°<br>11-12<br>21-22<br>31-32     | <b>T30</b><br>0 23° 78°<br>13-14<br>23-24<br>33-34                  |                                                      |                                                               |

Conformity /  $\rightarrow$  (NC) /  $\rightarrow$   
 Max. Actuation speed 1.5ms  
 Min. force or torque 0.15N / 0.30Nm  
 Weight 305g

Ø22 Roller lever  
 Code nylon roller  
 stainless steel roller  
 steel ball bearing

PS43L- $\square$  $\blacktriangle$ RT-M00  
 PS43L- $\square$  $\blacktriangle$ RS-M00  
 PS43L- $\square$  $\blacktriangle$ RO-M00

|                                                                                     |                                                                                     |                                                            |                                                                     |                                                      |                                                               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|
|  |  | <b>S11</b><br>0 20° 33° 49° 78°<br>21-22<br>13-14<br>13-14 | <b>T11</b><br>0 22° 38° 78°<br>21-22<br>13-14<br>33°                | <b>O11</b><br>0 37° 53° 78°<br>21-22<br>13-14<br>21° | <b>T02</b><br>0 21° 37° 78°<br>11-12<br>21-22                 |
|                                                                                     |                                                                                     | <b>T20</b><br>0 20° 78°<br>13-14<br>23-24                  | <b>S02</b><br>0 20° 32° 48° 78°<br>11-12<br>21-22<br>11-12<br>21-22 | <b>T12</b><br>0 18° 35° 78°<br>21-22<br>13-14<br>37° | <b>T21</b><br>0 19° 36° 78°<br>31-32<br>13-14<br>23-24<br>37° |
|                                                                                     |                                                                                     | <b>T03</b><br>0 18° 35° 78°<br>11-12<br>21-22<br>31-32     | <b>T30</b><br>0 23° 78°<br>13-14<br>23-24<br>33-34                  |                                                      |                                                               |

Conformity /  $\rightarrow$  (NC) /  $\rightarrow$   
 Max. Actuation speed 1.5ms  
 Min. force or torque 0.15N / 0.30Nm  
 Weight 315g

Ø50 Rubber roller lever  
 Code

PS43L- $\square$  $\blacktriangle$ W0-M00

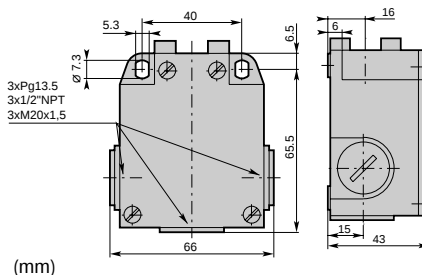
# Limit Switches - Limit Type (PS43) Metal Body IP66

CARLO GAVAZZI

## ■ Cable Gland

**P** = Three cable inlet PG13.5 cable gland  
**M** = Three cable inlet M20x1.5 cable gland  
**N** = Three cable inlet 1/2" NPT cable gland

## ▲ Contact block (Zb type)



|                                     |                                                        |                                                        |                                                 |                                                 |
|-------------------------------------|--------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| <b>S11</b> (1NO+1NC)<br>Snap action | <b>T11</b> (1NO+1NC)<br>Non overlapping<br>Slow action | <b>O11</b> (1NO+1NC)<br>Overlapping<br>Slow action     | <b>T02</b> (2NC)<br>Slow Action                 | <b>T20</b> (2NO)<br>Slow action                 |
| <b>S02</b> (2NC)<br>Snap action     | <b>T12</b> (1NO+2NC)<br>Non overlapping<br>Slow action | <b>T21</b> (2NO+1NC)<br>Non overlapping<br>Slow action | <b>T03</b> (3NC)<br>Simultaneous<br>Slow action | <b>T30</b> (3NO)<br>Simultaneous<br>Slow action |

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|  |  |  |  |

Conformity / (NC)

Max. Actuation speed 1.5ms

Min. force or torque 0.15N / 0.30Nm

Weight 325g

Adjustable Ø22 roller lever

Code nylon lever  
stainless steel roller  
steel ball bearing

PS43L-R1-M00  
PS43L-R2-M00  
PS43L-R3-M00

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|  |  |  |  |

Conformity / (NC)

Max. Actuation speed 1.5ms

Min. force or torque 0.15N / 0.30Nm

Weight 330g

Adjustable Ø50 rubber roller lever

Code

PS43L-W1-M00

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|  |  |  |  |

Conformity / (NC)

Max. Actuation speed 1.5ms

Min. force or torque 0.15N / -

Weight 330g

Nylon actuator with stainless steel spring

Code

PS43L-LB-M00

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|  |  |  |  |

Conformity / (NC)

Max. Actuation speed 1.5ms

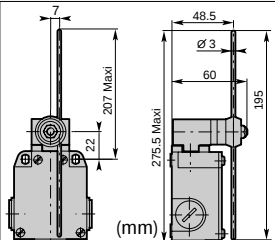
Min. force or torque 0.15N / -

Weight 330g

Stainless steel spring actuator

Code

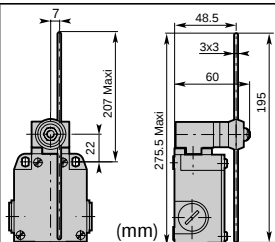
PS43L-LZ-M00

|                                                                                   |                                                                                   |                                                                     |                                                                     |                                                      |                                                               |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|
|  |  | <b>S11</b><br>0 20° 33° 49° 78°<br>21-22<br>13-14<br>21-22<br>13-14 | <b>T11</b><br>0 22° 38° 78°<br>21-22<br>13-14<br>33°                | <b>O11</b><br>0 37° 53° 78°<br>21-22<br>13-14<br>21° | <b>T02</b><br>0 21° 37° 78°<br>11-12<br>21-22                 |
|                                                                                   |                                                                                   | <b>T20</b><br>0 20° 78°<br>13-14<br>23-24                           | <b>S02</b><br>0 20° 32° 48° 78°<br>11-12<br>21-22<br>11-12<br>21-22 | <b>T12</b><br>0 18° 35° 78°<br>21-22<br>13-14<br>37° | <b>T21</b><br>0 19° 36° 78°<br>31-32<br>13-14<br>23-24<br>37° |
|                                                                                   |                                                                                   | <b>T03</b><br>0 18° 35° 78°<br>11-12<br>21-22<br>31-32              | <b>T30</b><br>0 23° 78°<br>13-14<br>21-22<br>33-34                  |                                                      |                                                               |

Conformity /  $\rightarrow$  (NC) /  $\rightarrow$   
**Max. Actuation speed** 1.5ms  
**Min. force or torque** 0.15N / 0.30  
**Weight** 330g

**Adjustable rod lever**  
**Code** stainless steel rod Ø3  
 fiberglass rod Ø3

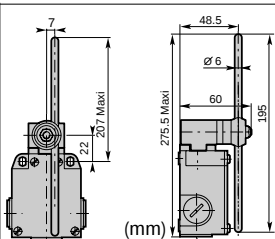
PS43L-☐ ☐ LA-M00  
 PS43L-☐ ☐ LF-M00

|                                                                                   |                                                                                   |                                                                     |                                                                     |                                                      |                                                               |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|
|  |  | <b>S11</b><br>0 20° 33° 49° 78°<br>21-22<br>13-14<br>21-22<br>13-14 | <b>T11</b><br>0 22° 38° 78°<br>21-22<br>13-14<br>33°                | <b>O11</b><br>0 37° 53° 78°<br>21-22<br>13-14<br>21° | <b>T02</b><br>0 21° 37° 78°<br>11-12<br>21-22                 |
|                                                                                   |                                                                                   | <b>T20</b><br>0 20° 78°<br>13-14<br>23-24                           | <b>S02</b><br>0 20° 32° 48° 78°<br>11-12<br>21-22<br>11-12<br>21-22 | <b>T12</b><br>0 18° 35° 78°<br>21-22<br>13-14<br>37° | <b>T21</b><br>0 19° 36° 78°<br>31-32<br>13-14<br>23-24<br>37° |
|                                                                                   |                                                                                   | <b>T03</b><br>0 18° 35° 78°<br>11-12<br>21-22<br>31-32              | <b>T30</b><br>0 23° 78°<br>13-14<br>21-22<br>33-34                  |                                                      |                                                               |

Conformity /  $\rightarrow$  (NC) /  $\rightarrow$   
**Max. Actuation speed** 1.5ms  
**Min. force or torque** 0.15N / 0.30  
**Weight** 330g

**Adjustable rod lever**  
**Code** square steel rod 3x3

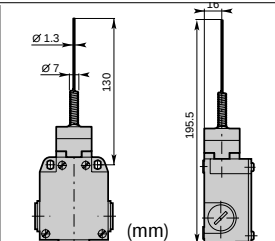
PS43L-☐ ☐ L3-M00

|                                                                                     |                                                                                     |                                                                     |                                                                     |                                                      |                                                               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|
|  |  | <b>S11</b><br>0 20° 33° 49° 78°<br>21-22<br>13-14<br>21-22<br>13-14 | <b>T11</b><br>0 22° 38° 78°<br>21-22<br>13-14<br>33°                | <b>O11</b><br>0 37° 53° 78°<br>21-22<br>13-14<br>21° | <b>T02</b><br>0 21° 37° 78°<br>11-12<br>21-22                 |
|                                                                                     |                                                                                     | <b>T20</b><br>0 20° 78°<br>13-14<br>23-24                           | <b>S02</b><br>0 20° 32° 48° 78°<br>11-12<br>21-22<br>11-12<br>21-22 | <b>T12</b><br>0 18° 35° 78°<br>21-22<br>13-14<br>37° | <b>T21</b><br>0 19° 36° 78°<br>31-32<br>13-14<br>23-24<br>37° |
|                                                                                     |                                                                                     | <b>T03</b><br>0 18° 35° 78°<br>11-12<br>21-22<br>31-32              | <b>T30</b><br>0 23° 78°<br>13-14<br>21-22<br>33-34                  |                                                      |                                                               |

Conformity /  $\rightarrow$  (NC) /  $\rightarrow$   
**Max. Actuation speed** 1.5ms  
**Min. force or torque** 0.15N / 0.30Nm  
**Weight** 330g

**Adjustable Ø6 rod lever**  
**Code** nylon rod  
 fiberglass rod

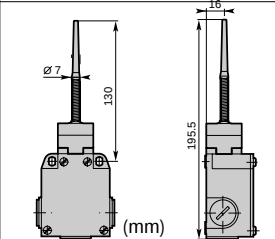
PS43L-☐ ☐ LN-M00  
 PS43L-☐ ☐ LG-M00

|                                                                                     |                                                                                     |                                                            |                                                            |                                              |                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|
|  |  | <b>S11</b><br>0 9° 21°<br>21-22<br>13-14<br>21-22<br>13-14 | <b>T11</b><br>0 12°<br>21-22<br>13-14<br>19°               | <b>O11</b><br>0 23°<br>21-22<br>13-14<br>11° | <b>T02</b><br>0 11°<br>11-12<br>21-22                 |
|                                                                                     |                                                                                     | <b>T20</b><br>0 10°<br>13-14<br>23-24                      | <b>S02</b><br>0 9° 20°<br>11-12<br>21-22<br>11-12<br>21-22 | <b>T12</b><br>0 12°<br>21-22<br>13-14<br>27° | <b>T21</b><br>0 13°<br>31-32<br>13-14<br>23-24<br>27° |
|                                                                                     |                                                                                     | <b>T03</b><br>0 12°<br>11-12<br>21-22<br>31-32             | <b>T30</b><br>0 16°<br>13-14<br>21-22<br>33-34             |                                              |                                                       |

Conformity /  $\rightarrow$  /  $\rightarrow$   
**Max. Actuation speed** 1.0ms  
**Min. force or torque** 0.18N / -  
**Weight** 265g

**Stainless steel spring multidirectional actuator**  
**Code**

PS43L-☐ ☐ LW-M00

|                                                                                     |                                                                                     |                                                            |                                                            |                                              |                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|
|  |  | <b>S11</b><br>0 9° 21°<br>21-22<br>13-14<br>21-22<br>13-14 | <b>T11</b><br>0 12°<br>21-22<br>13-14<br>19°               | <b>O11</b><br>0 23°<br>21-22<br>13-14<br>11° | <b>T02</b><br>0 11°<br>11-12<br>21-22                 |
|                                                                                     |                                                                                     | <b>T20</b><br>0 10°<br>13-14<br>23-24                      | <b>S02</b><br>0 9° 20°<br>11-12<br>21-22<br>11-12<br>21-22 | <b>T12</b><br>0 12°<br>21-22<br>13-14<br>27° | <b>T21</b><br>0 13°<br>31-32<br>13-14<br>23-24<br>27° |
|                                                                                     |                                                                                     | <b>T03</b><br>0 12°<br>11-12<br>21-22<br>31-32             | <b>T30</b><br>0 16°<br>13-14<br>21-22<br>33-34             |                                              |                                                       |

Conformity /  $\rightarrow$  (NC) /  $\rightarrow$   
**Max. Actuation speed** 1.0ms  
**Min. force or torque** 0.18N / -  
**Weight** 265g

**Multidirectional nylon actuator with stainless steel spring**  
**Code**

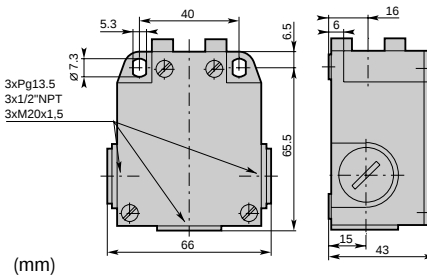
PS43L-☐ ☐ LP-M00

# Limit Switches - Limit Type (PS43) Metal Body IP66

CARLO GAVAZZI

## ■ Cable Gland

**P** = Three cable inlet PG13.5 cable gland  
**M** = Three cable inlet M20x1.5 cable gland  
**N** = Three cable inlet 1/2" NPT cable gland



## ▲ Contact block (Zb type)

|                                     |                                                        |                                                        |                                                 |                                                 |
|-------------------------------------|--------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| <b>S11</b> (1NO+1NC)<br>Snap action | <b>T11</b> (1NO+1NC)<br>Non overlapping<br>Slow action | <b>O11</b> (1NO+1NC)<br>Overlapping<br>Slow action     | <b>T02</b> (2NC)<br>Slow Action                 | <b>T20</b> (2NO)<br>Slow action                 |
| <b>S02</b> (2NC)<br>Snap action     | <b>T12</b> (1NO+2NC)<br>Non overlapping<br>Slow action | <b>T21</b> (2NO+1NC)<br>Non overlapping<br>Slow action | <b>T03</b> (3NC)<br>Simultaneous<br>Slow action | <b>T30</b> (3NO)<br>Simultaneous<br>Slow action |

|  |  |                                                   |                                                   |                                        |                                              |
|--|--|---------------------------------------------------|---------------------------------------------------|----------------------------------------|----------------------------------------------|
|  |  | <b>S11</b><br>0 9° 21°<br>21-22 13-14 21-22 13-14 | <b>T11</b><br>0 12°<br>21-22 13-14 19°            | <b>O11</b><br>0 23°<br>21-22 13-14 11° | <b>T02</b><br>0 11°<br>21-22 13-14           |
|  |  | <b>T20</b><br>0 10°<br>23-24 13-14                | <b>S02</b><br>0 9° 20°<br>21-22 13-14 21-22 13-14 | <b>T12</b><br>0 12°<br>21-22 13-14 27° | <b>T21</b><br>0 13°<br>31-32 13-14 23-24 27° |
|  |  | <b>T03</b><br>0 12°<br>11-12 13-14 31-32          | <b>T30</b><br>0 16°<br>13-14 23-24 33-34          |                                        |                                              |

Conformity / (NC)

Max. Actuation speed 1.0ms

Min. force or torque 0.18N / -

Weight 270g

Stainless steel spring multidirectional actuator

Code

PS43L- ■▲LS-M00

|  |  |                                                           |                                                 |                                               |                                                     |
|--|--|-----------------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|
|  |  | <b>S11</b><br>0 3.2 4.4 5.0 mm<br>21-22 13-14 21-22 13-14 | <b>T11</b><br>0 2.5 5.0 mm<br>21-22 13-14 3.2   | <b>O11</b><br>0 3.4 5.0 mm<br>21-22 13-14 2.1 | <b>T02</b><br>0 3.4 5.0 mm<br>21-22 13-14           |
|  |  | <b>T20</b><br>0 3.6 5.0 mm<br>13-14 23-24                 |                                                 | <b>T12</b><br>0 1.6 5.0 mm<br>21-22 13-14 2.9 | <b>T21</b><br>0 1.5 5.0 mm<br>31-32 13-14 23-24 3.0 |
|  |  | <b>T03</b><br>0 3.3 5.0 mm<br>11-12 13-14 31-32           | <b>T30</b><br>0 2.7 5.0 mm<br>13-14 23-24 33-34 |                                               |                                                     |

Conformity / (NC)

Max. Actuation speed 0.5ms

Min. force or torque 25N / -

Weight 270g

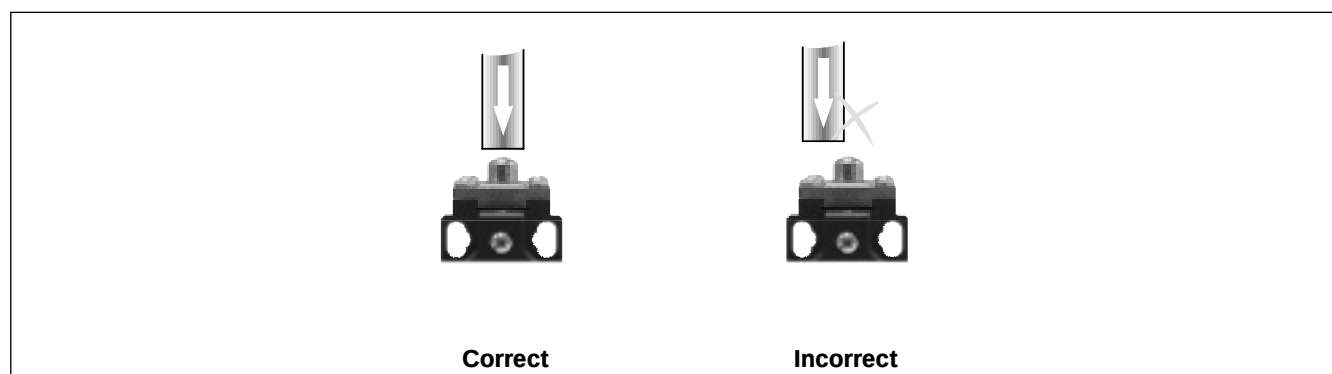
Pull action with ring

Code

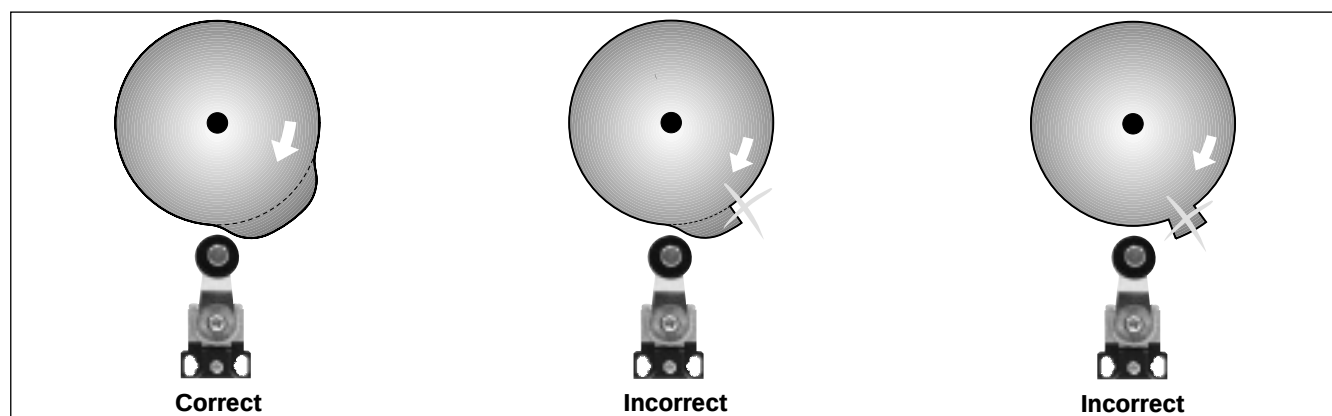
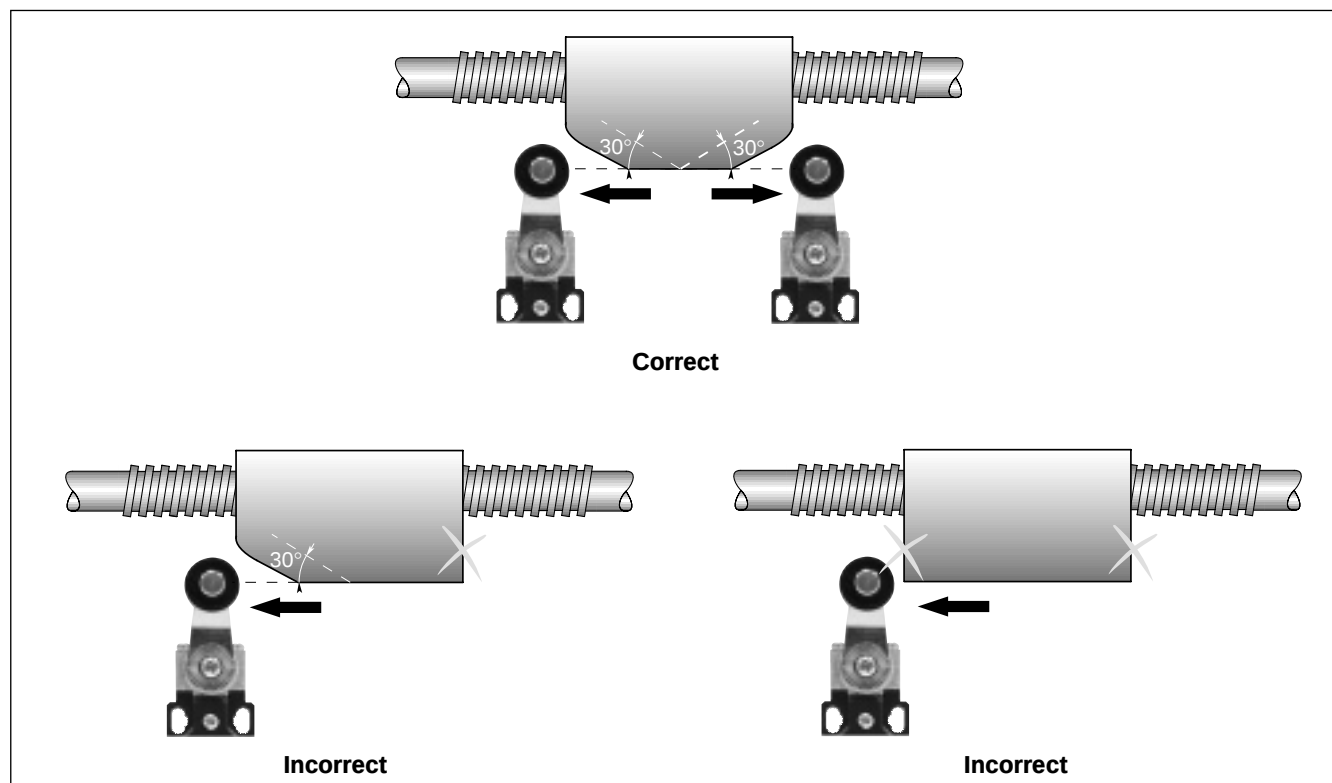
PS43L- ■▲N6-M00

## Utilization precautions

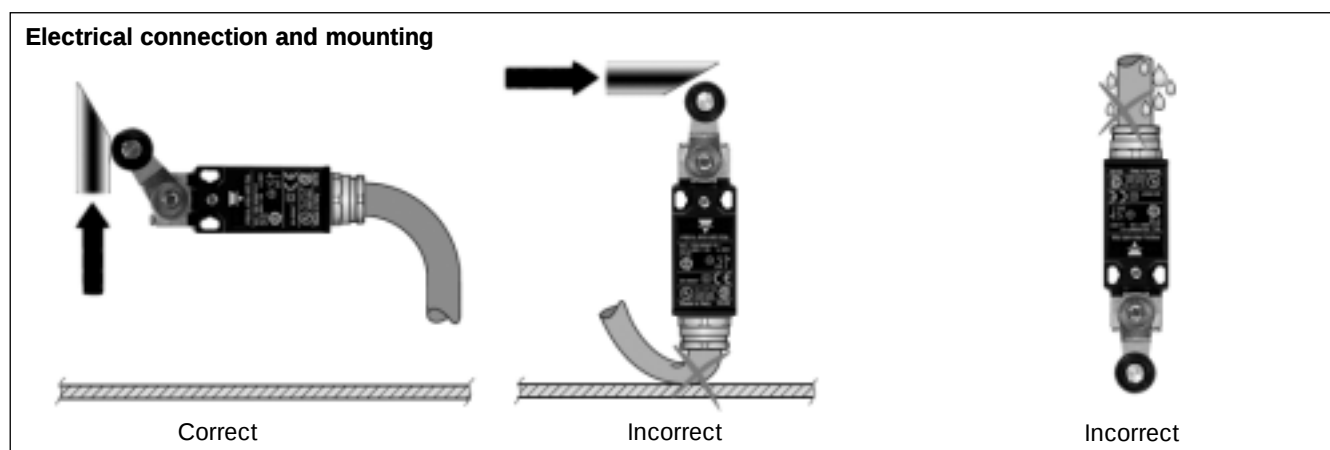
### Plain plunger



### Roller plunger or Roller lever



## Utilization precautions



## Adjustement

