

Limit Switches - Limit Type Plastic Body IP65



- Double Insulation □
- Degree of protection IP65
- Reinforced UL-V0 thermoplastic fiber-glass 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 I_{th} = 10A
- Rated insulation voltage U_i = 500V
- UL, CSA, CE
- Conform with IEC 947-5-1 (EN 60947-5-1)

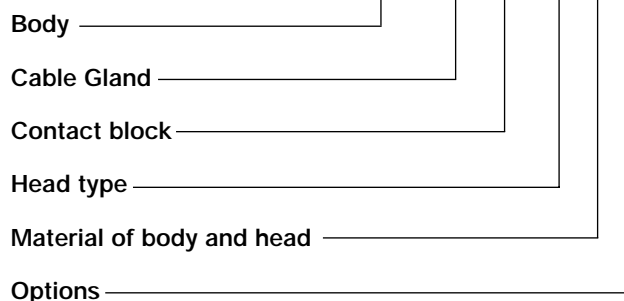
Product Description

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

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

Ordering Key

PS42L-PS11RT-T00



Description of the key codes

Body

PS42L | PS 50mm (fix 40/42mm) 2 cable inlet for General Purpose

Cable Gland

M	M20
P	PG13.5
B	PG11
A	M16
N	1/2 NPT

Contact block

O11	1NO+1NC overlap slow(+)
S02	2NC snap(+)
S11	1NO+1NC snap(+)
T02	2NC slow(+)
T11	1NO+1NC slow(+)
T20	2NO slow

Material of body and head

T | Thermoplastic Body and Thermoplastic head

Options

00 | no option

Head type

BE	nylon roller ext bent LEVER
BR	nylon roller int bent LEVER
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
LO	steel PLUNGER with nylon roller+gasket
LP	multidir nylon actuator with stainless steel spring
LR	steel PLUNGER with nylon roller
LS	stainless steel spring multidir actuator
LW	Stainless steel spring multidir actuator (cat Whisker)
LZ	Stainless steel spring actuator
N6	pull wire for simple stop
P0	metal plain PLUNGER
P1	nylon roller PLUNGER
PH	metal PLUNGER +gasket
PN	nylon plain PLUNGER
PR	metal roller PLUNGER
R1	adj LEVER with nylon roller
RH	plastic roller LEVER on metal PLUNGER (left)
RJ	plastic roller LEVER on metal PLUNGER +gasket (left)
RL	plastic roller LEVER on plastic PLUNGER (left)
RT	nylon roller LEVER
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
W2	adj LEVER with adj 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 II

IP65

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 mm² / AWG

Terminal marking

Positivity

Diagram for snap action contact:

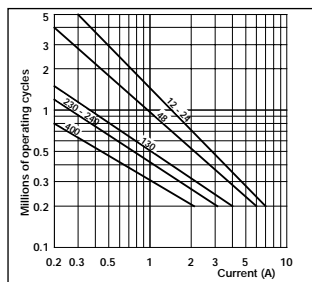
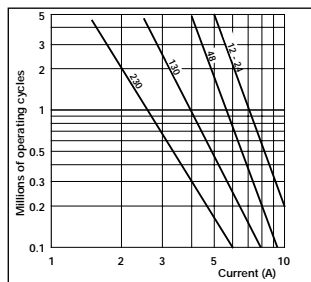


Diagram for slow action contact:



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

500V (degree of pollution 3)

A 600, Q 600

6

10

10

10

5.5

3.1

3

1.8

A 600

2.8

0.6

0,27

Q 600

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

3600

0,5

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

0,5mm² / AWG 20 to 2,5mm² / AWG 14

According to EN 50013

Contacts with positive opening operation as per

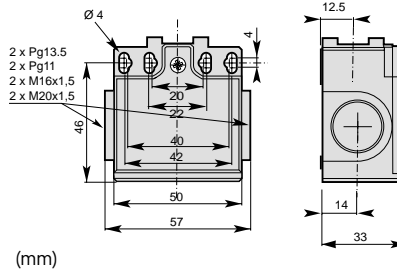
IEC 60947-5-1 chapter 3

Limit Switches - Limit Type (PS42) Plastic Body IP65

CARLO GAVAZZI

▣ Cable Gland

- P = two cable inlet PG13.5 cable gland
- M = two cable inlet M20x1.5 cable gland
- N = two cable inlet 1/2" NPT cable gland
- B = two cable inlet PG11 cable gland
- A = two cable inlet M16x1.5 cable gland



▲ Contact block (Zb type)

S11 (1NO+1NC) Snap Action		T11 (1NO+1NC) Non overlapping Slow action		O11 (1NO+1NC) Overlapping Slow Action	
T02 (2NC) Slow Action		T20 (2NO) Slow Action		S02 (2NC) Snap Action	

			S11	T11	O11
			T02	T20	S02

Conformity / (NC)	/ (NC)
Max. Actuation speed	0.5ms
Min. force or torque	15N / 30Nm
Weight	100g

Plain Plunger	
Code	Nylon plunger Metal plunger Metal pl. with dust prot. cup
PS42L- [] [] PN-T00	
PS42L- [] [] P0-T00	
PS42L- [] [] PH-T00	

			S11	T11	O11
			T02	T20	S02

Conformity / (NC)	/ (NC)
Max. Actuation speed	0.3ms
Min. force or torque	12N / 30Nm
Weight	105g

Roller Plunger	
Code	Metal roller Nylon roller
PS42L- [] [] PR-T00	
PS42L- [] [] P1-T00	

			S11	T11	O11
			T02	T20	S02

Conformity / (NC)	/ (NC)
Max. Actuation speed	1.0ms
Min. force or torque	7N / 24Nm
Weight	105g

Plastic roller	
Code	on plastic plunger on metal plunger on metal pl. with dust prot. cup
PS42L- [] [] RL-T00	
PS42L- [] [] RH-T00	
PS42L- [] [] RJ-T00	

			S11	T11	O11
			T02	T20	S02

Conformity / (NC)	/ (NC)
Max. Actuation speed	1.0ms
Min. force or torque	7N / 24Nm
Weight	110g

Adjustable plastic roller lever on metal plunger	
Code	standard with dust protection cup
PS42L- [] [] LR-T00	
PS42L- [] [] LO-T00	

			S11	T11	O11
		(mm)	T02	T20	S02

Conformity / \rightarrow (NC) / \rightarrow **Ø 18 Nylon roller lever**
 Max. Actuation speed 1.5ms Code
 Min. force or torque 0.10N / 0.32Nm
 Weight 125g PS42L-RT-T00

			S11	T11	O11
		(mm)	T02	T20	S02

Conformity / \rightarrow (NC) / \rightarrow **Ø 50 Rubber roller lever**
 Max. Actuation speed 1.5ms Code
 Min. force or torque 0.10N / 0.32Nm
 Weight 145g PS42L-W0-T00

			S11	T11	O11
		(mm)	T02	T20	S02

Conformity / \rightarrow (NC) / \rightarrow **Ø 18 Nylon roller lever**
 Max. Actuation speed 1.5ms Code
 Min. force or torque 0.10N / 0.32Nm
 Weight 125g PS42L-BR-T00

			S11	T11	O11
		(mm)	T02	T20	S02

Conformity / \rightarrow (NC) / \rightarrow **Ø 18 Nylon roller lever**
 Max. Actuation speed 1.5ms Code
 Min. force or torque 0.10N / 0.32Nm
 Weight 125g PS42L-BE-T00

			S11	T11	O11
		(mm)	T02	T20	S02

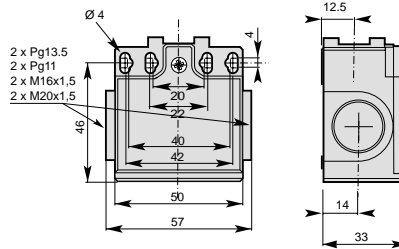
Conformity / \rightarrow (NC) / \rightarrow **Adjustable lever with Ø 18 nylon roller**
 Max. Actuation speed 1.5ms Code
 Min. force or torque 0.10N / 0.32Nm
 Weight 135g PS42L-R1-T00

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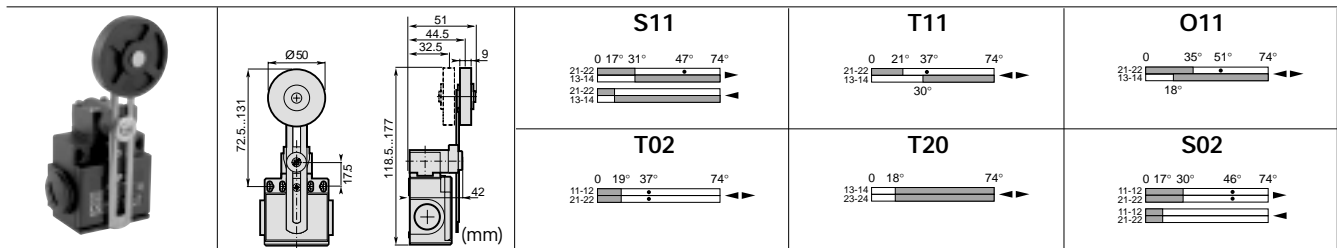
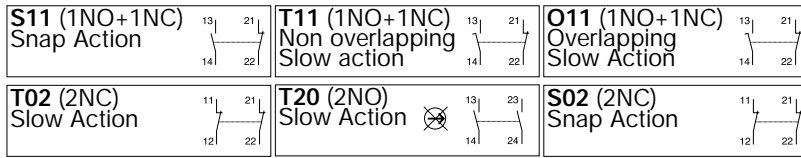
■ Cable Gland

- P = two cable inlet PG13.5 cable gland
- M = two cable inlet M20x1.5 cable gland
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- A = two cable inlet M16x1.5 cable gland



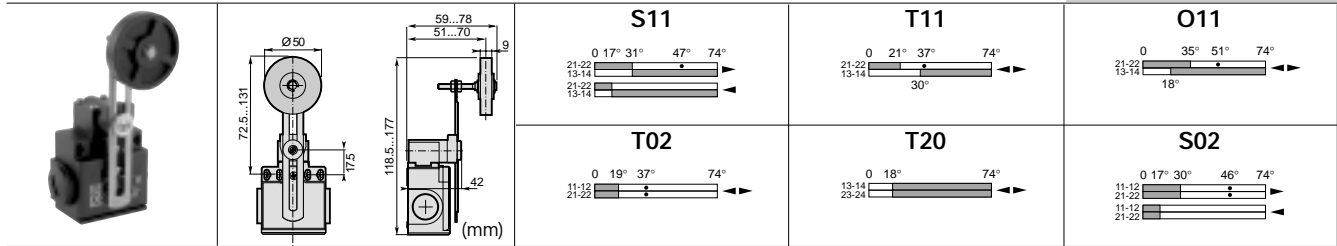
▲ Contact block (Zb type)

(mm)



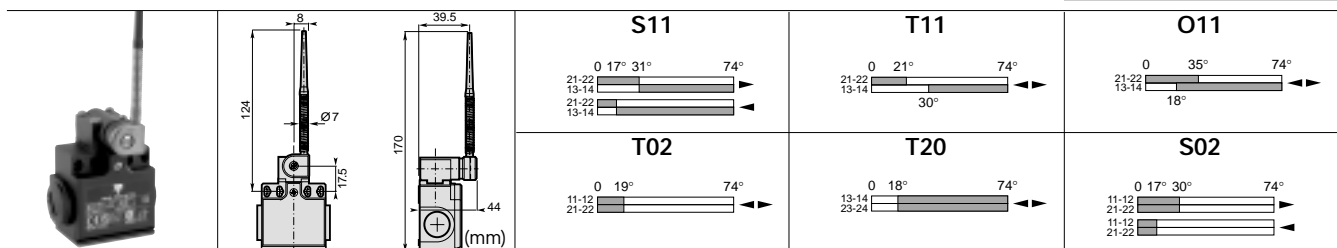
Conformity / \ominus (NC) / \ominus
 Max. Actuation speed 1.5ms
 Min. force or torque 0.10N / 0.32Nm
 Weight 155g

Adjustable lever with \varnothing 50 rubber roller
 Code **PS42L-▲W1-T00**



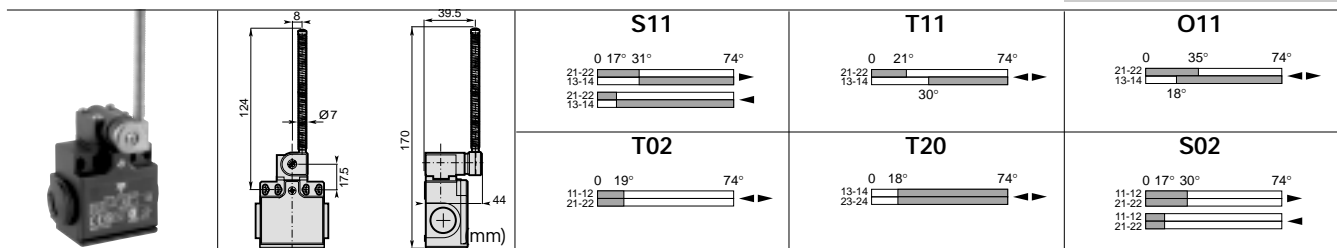
Conformity / \ominus (NC) / \ominus
 Max. Actuation speed 1.5ms
 Min. force or torque 0.10N / 0.32Nm
 Weight 155g

Adjustable lever with adjustable \varnothing 50 rubber roller
 Code **PS42L-▲W2-T00**



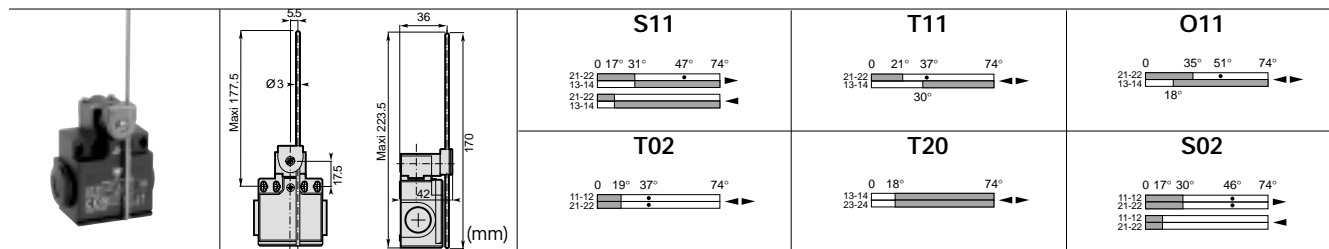
Conformity / \ominus (NC) / \ominus
 Max. Actuation speed 1.5ms
 Min. force or torque 0.10N / -
 Weight 135g

Nylon actuator with stainless steel spring
 Code **PS42L-▲LB-T00**



Conformity / \ominus (NC) / \ominus
 Max. Actuation speed 1.5ms
 Min. force or torque 0.10N / -
 Weight 135g

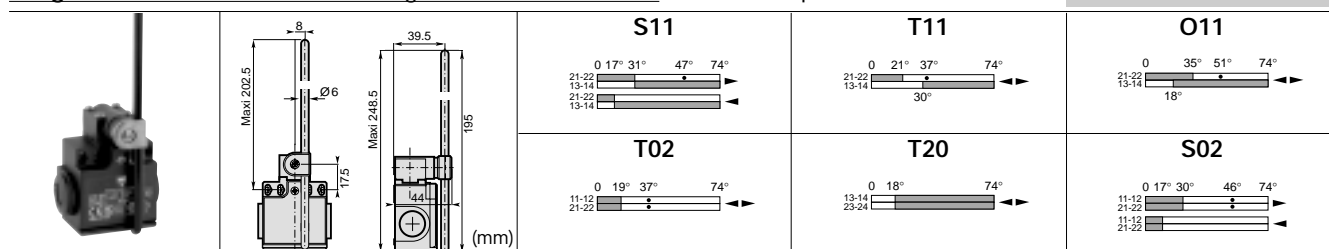
Stainless steel spring actuator
 Code **PS42L-▲LZ-T00**



Conformity / \rightarrow (NC) / \leftarrow
 Max. Actuation speed 1.5ms
 Min. force or torque 0.10N / 0.32
 Weight 130g

Adjustable rod lever
 Code stainless steel rod \varnothing 3
 fiberglass rod \varnothing 3
 square steel rod 3x3

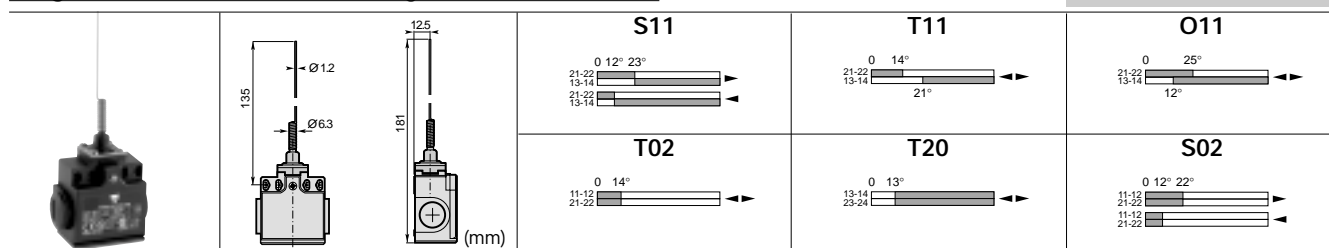
PS42L- \bullet \blacktriangle LA-T00
 PS42L- \bullet \blacktriangle LF-T00
 PS42L- \bullet \blacktriangle L3-T00



Conformity / \rightarrow (NC) / \leftarrow
 Max. Actuation speed 1.5ms
 Min. force or torque 0.10N / 0.32Nm
 Weight 145g

Adjustable \varnothing 6 rod lever
 Code nylon rod
 fiberglass rod

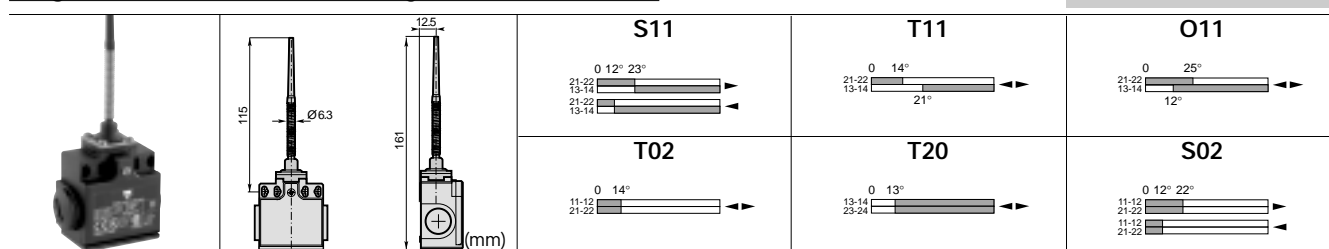
PS42L- \bullet \blacktriangle LN-T00
 PS42L- \bullet \blacktriangle LG-T00



Conformity / \rightarrow (NC) / \leftarrow
 Max. Actuation speed 1.0ms
 Min. force or torque 0.12N / -
 Weight 110g

Stainless steel spring multidirectional actuator
 Code

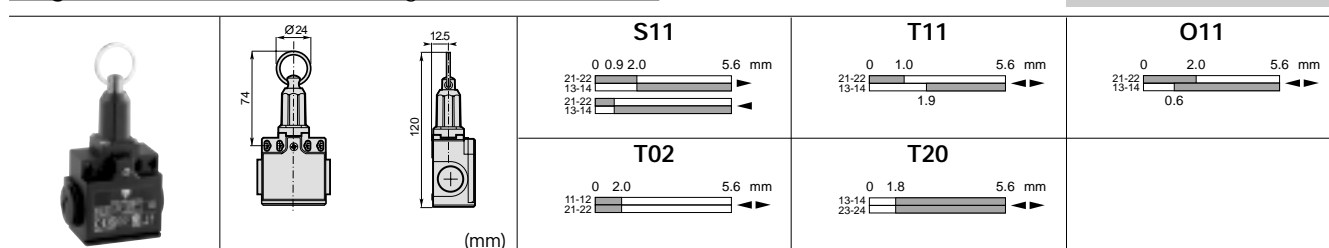
PS42L- \bullet \blacktriangle LW-T00



Conformity / \rightarrow (NC) / \leftarrow
 Max. Actuation speed 1.0ms
 Min. force or torque 0.12N / -
 Weight 115g

Multidirectional stainless steel spring
 Code nylon actuator
 stainless steel spring actuator

PS42L- \bullet \blacktriangle LP-T00
 PS42L- \bullet \blacktriangle LS-T00



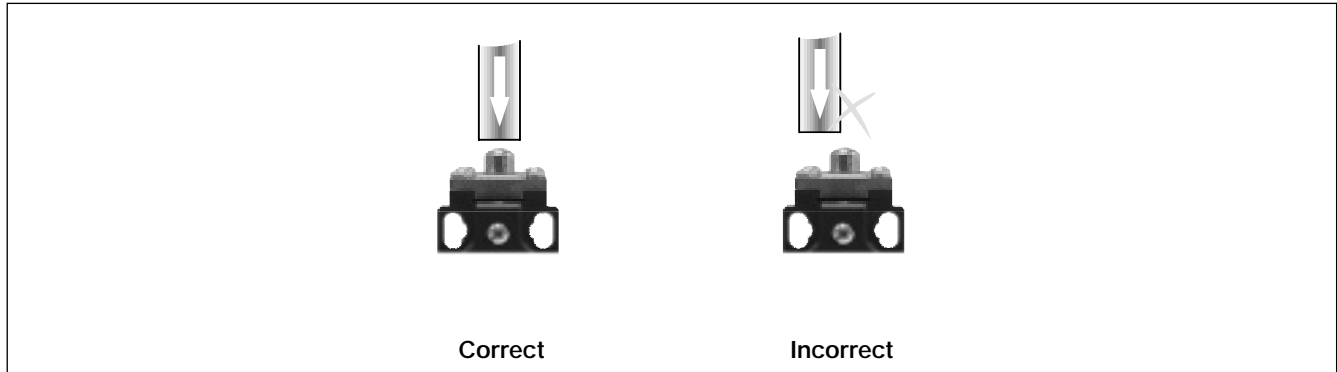
Conformity / \rightarrow (NC) / \leftarrow
 Max. Actuation speed 0.5ms
 Min. force or torque 30N / -
 Weight 145g

Pull action with ring
 Code

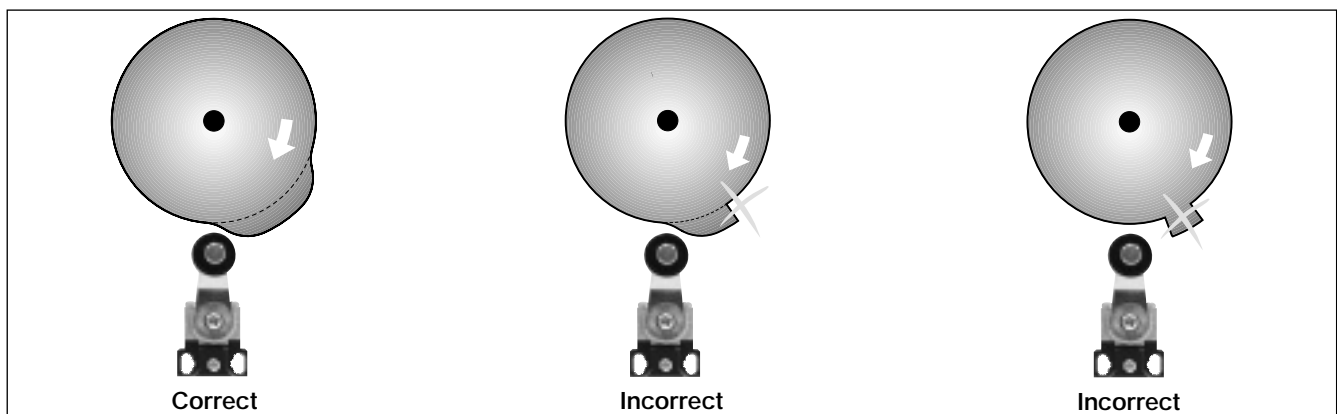
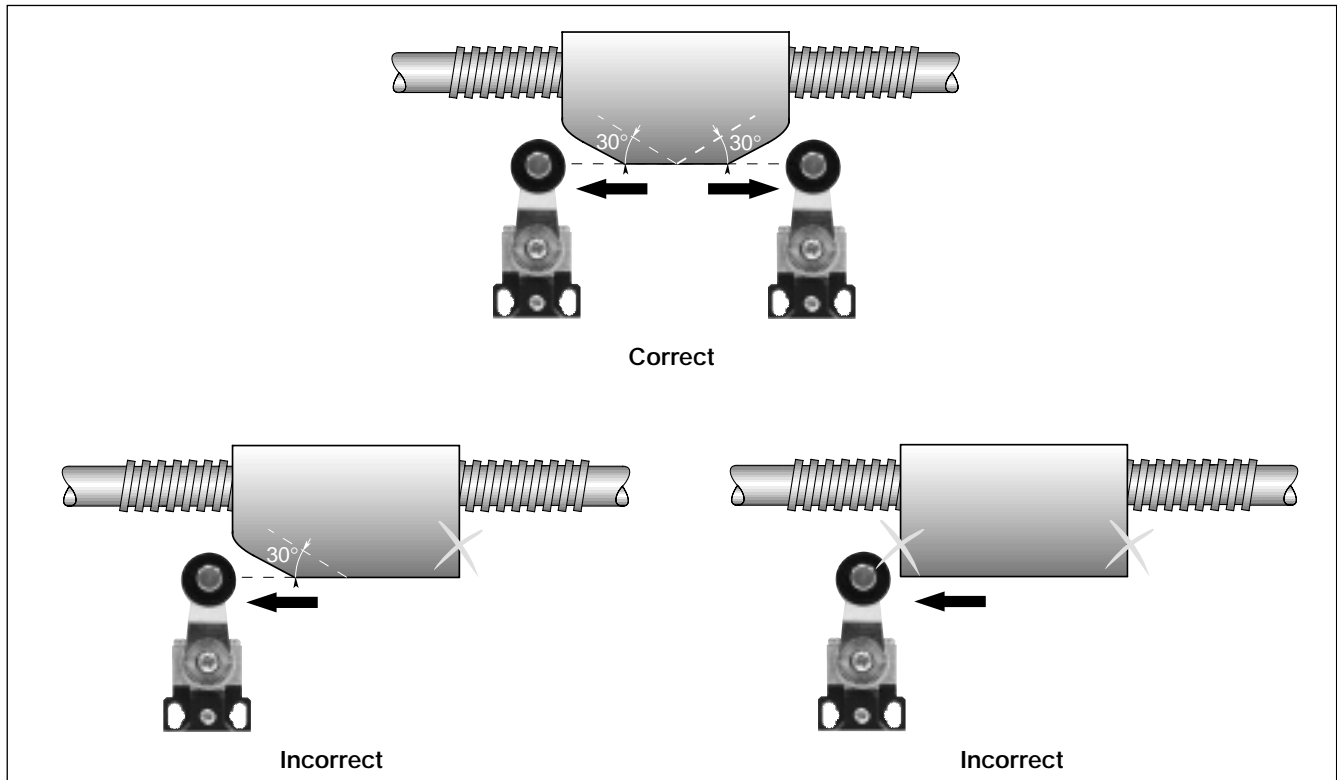
PS42L- \bullet \blacktriangle N6-T00

Utilization precautions

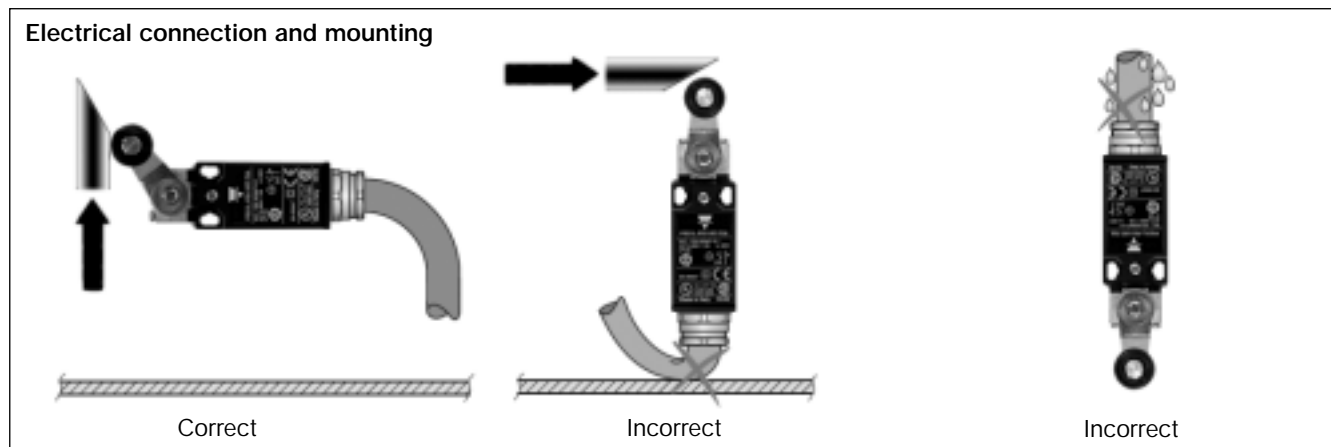
Plain plunger



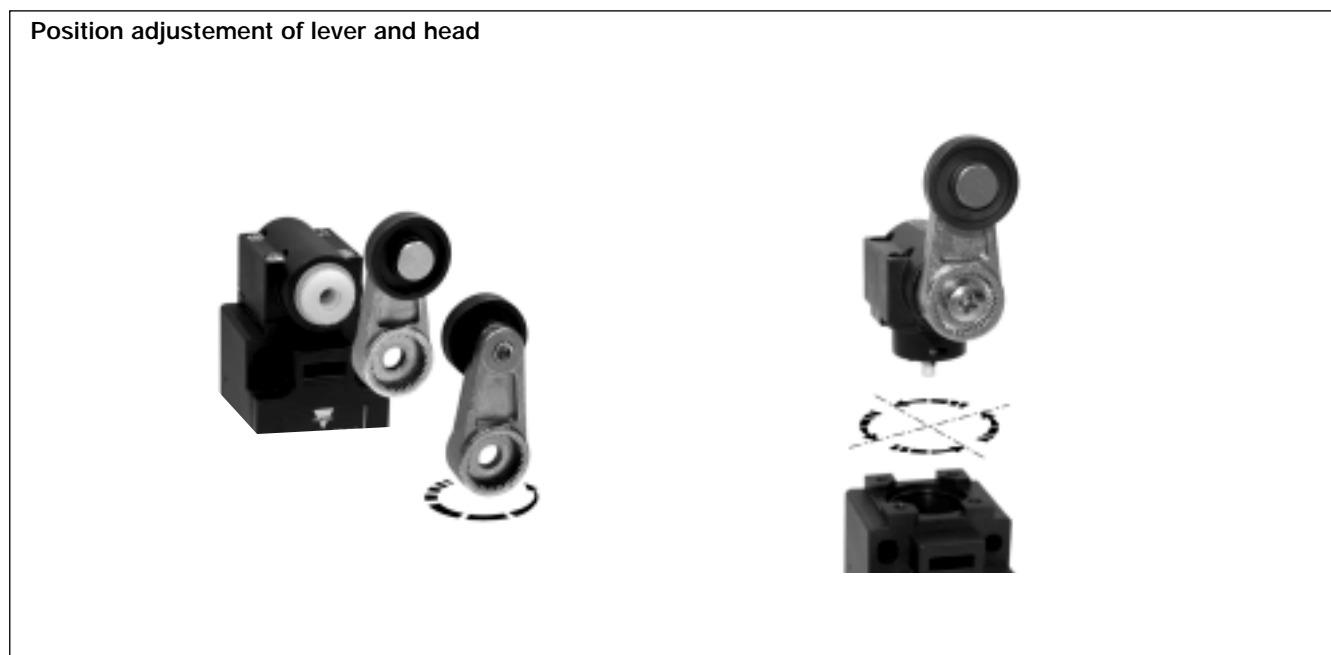
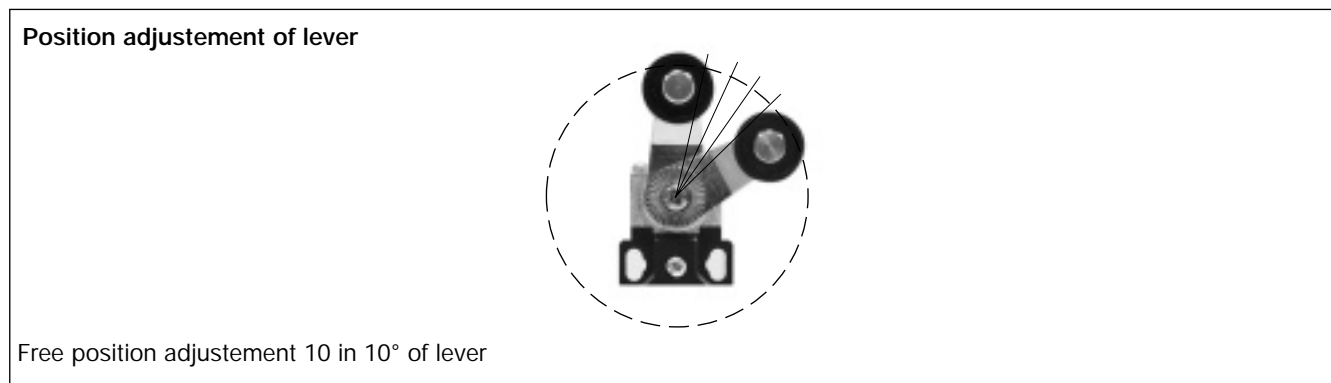
Roller plunger or Roller lever



Utilization precautions



Adjustement



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