

Technical Data

Standards

Certifications – Approvals

Air temperature near the device

- during operation

- for storage

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 milion operations)

Plastic Body

Metal body

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

-25 ... +70

-30 ... +80

-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 100 us

Class II

Class I

IP65

IP66

0.1 mm (upon closing point)

0.1 mm (upon closing point)

Electrical Data

Rated insulation voltage U_i

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

500 (degree of pollution 3)

Rated impulse withstand voltage U_{imp}

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

6

Conventional enclosed thermal current I_{the}

Short-circuit protection - gG type fuses A

10

Short-circuit protection - gG type fuses A

10

Rated operational current

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

24V - 50/60 Hz	A
130V - 50/60 Hz	A
230V - 50/60 Hz	A
240V - 50/60 Hz	A
400V - 50/60 Hz	A

10

5.5

3.1

3

1.8

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

24 V - d.c.	A
110V-d.c.	A
250V - d.c	A

2.8

0.6

0,27

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

- max. switching frequency Cycles/h

- load factor

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

3600

0,5

Connecting data of contact blocks

Connecting terminals

Connecting capacity 1 or 2 x mm² / AWG

Terminal marking

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

0,5mm² / AWG 20 to 2,5mm² / AWG 14

According to EN 50013

Diagram for snap action contacts:

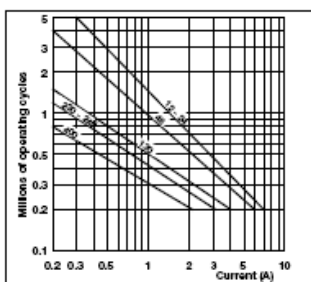
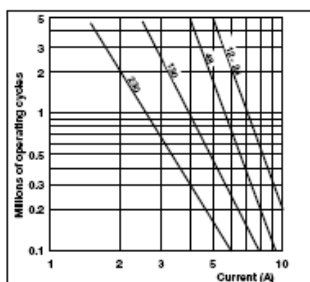


Diagram for non-overlapping slow action contacts:



Electrical durability for DC-3 utilization category

	Snap action	Slow action
Power breaking for a durability of 5 milion operating cycles		

Voltage 24V

9,5W

12W

Voltage 48V

6,8W

9W

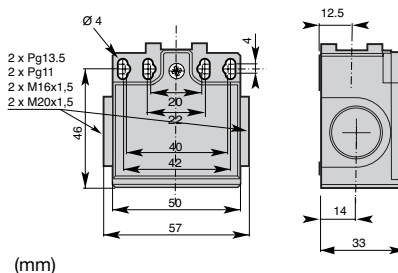
Voltage 110V

3,6W

6W

CARLO GAVAZZI

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



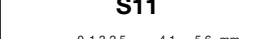
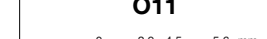
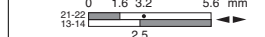
S11 (1NO+1NC) Snap Action	T11 (1NO+1NC) Non overlapping Slow action	O11 (1NO+1NC) Overlapping Slow Action
T02 (2NC) Slow Action	T20 (2NO) Slow Action	S02 (2NC) Snap Action

  	S11 	T11 	O11 
(mm)	T02 	T20 	S02 

Conformity / → (NC)	/ →	Plain Plunger	
Max. Actuation speed	0.5ms	Code Nylon plunger	PS42L-   PN-T00
Min. force or torque	15N / 30Nm	Metal plunger	PS42L-   P0-T00
Weight	100g		

 	S11 	T11 	O11 
	T02 	T20 	S02 

Conformity / → (NC)		Roller Plunger	
Max. Actuation speed	0.3ms	Code Metal roller	PS42L-   PR-T00
Min. force or torque	12N / 30Nm	Nylon roller	PS42L-   P1-T00
Weight	105g		

		S11 	T11 	O11 
		T02 	T20 	S02 

Conformity / → (NC)	/ →	Metal plunger with dust protection cup	
Max. Actuation speed	0.5ms	Code	PS42L-PH-T00
Min. force or torque	15N / 30Nm		
Weight	100g		

	 (mm)	S11 	T11 	O11 
		T02 	T20 	S02 

Conformity /  (NC)		Plastic roller	PS42L-RL-T00 PS42L-RH-T00
Max. Actuation speed	1.0ms	Code on plastic plunger	
Min. force or torque	7N / 24Nm	on metal plunger	
Weight	105g		

			S11 0 4.9 9.0 14.5 21.0 mm 21-22 13-14 21-22 13-14	T11 0 6.0 10.5 21.0 mm 21-22 13-14 8.6	O11 0 10.2 14.6 21.0 mm 21-22 13-14 5.4
			T02 0 5.7 10.2 21.0 mm 11-12 21-22	T20 0 5.3 21.0 mm 13-14 23-24	S02 0 5.1 8.6 13.1 21.0 mm 11-12 21-22 11-12 21-22

Conformity / (NC) /

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

Plastic roller lever on metal plunger with dust protection cup
Code

PS42L-□▲RJ-T00

			S11 0 8.8 15.0 23.2 32.0 mm 21-22 13-14 21-22 13-14	T11 0 10.6 18.5 32.0 mm 21-22 13-14 15.1	O11 0 16.8 25.1 32.0 mm 21-22 13-14 9.4
			T02 0 9.6 17.8 32.0 mm 11-12 21-22	T20 0 9.2 32.0 mm 13-14 23-24	S02 0 8.8 14.6 22.8 32.0 mm 11-12 21-22 11-12 21-22

Conformity / (NC) /

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

Adjustable plastic roller lever on metal plunger
Code

PS42L-□▲LR-T00

			S11 0 4.9 9.0 14.5 21.0 mm 21-22 13-14 21-22 13-14	T11 0 6.0 10.5 21.0 mm 21-22 13-14 8.6	O11 0 10.2 14.6 21.0 mm 21-22 13-14 5.4
			T02 0 5.7 10.2 21.0 mm 11-12 21-22	T20 0 5.3 21.0 mm 13-14 23-24	S02 0 5.1 8.6 13.1 21.0 mm 11-12 21-22 11-12 21-22

Conformity / (NC) /

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

Adj. plastic roller lever on metal plunger with dust prot. cup
Code

PS42L-□▲LO-T00

			S11 0 17° 31° 47° 74° 21-22 13-14 21-22 13-14	T11 0 21° 37° 74° 21-22 13-14 30°	O11 0 35° 51° 74° 21-22 13-14 18°
			T02 0 19° 37° 74° 11-12 21-22	T20 0 18° 74° 13-14 23-24	S02 0 17° 30° 46° 74° 11-12 21-22 11-12 21-22

Conformity / (NC) /

Max. Actuation speed 1.5ms
Min. force or torque 0.10N / 0.32Nm
Weight 125g

Ø 18 Nylon roller lever
Code

PS42L-□▲RT-T00

			S11 0 17° 31° 47° 74° 21-22 13-14 21-22 13-14	T11 0 21° 37° 74° 21-22 13-14 30°	O11 0 35° 51° 74° 21-22 13-14 18°
			T02 0 19° 37° 74° 11-12 21-22	T20 0 18° 74° 13-14 23-24	S02 0 17° 30° 46° 74° 11-12 21-22 11-12 21-22

Conformity / (NC) /

Max. Actuation speed 1.5ms
Min. force or torque 0.10N / 0.32Nm
Weight 145g

Ø 50 Rubber roller lever
Code

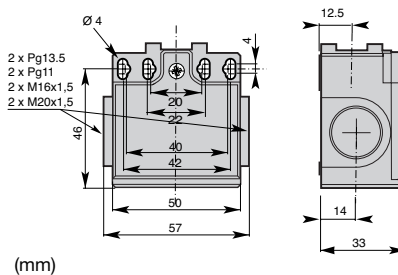
PS42L-□▲W0-T00

Limit Switches - Limit Type (PS42) Plastic Body IP65



■ 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) / (C)
 Max. Actuation speed 1.5ms
 Min. force or torque 0.10N / 0.32Nm
 Weight 125g

Ø 18 Nylon roller lever
 Code

PS42L-■▲BR-T00

		S11 	T11 	O11
		T02 	T20 	S02

Conformity / (NC) / (C)
 Max. Actuation speed 1.5ms
 Min. force or torque 0.10N / 0.32Nm
 Weight 125g

Ø 18 Nylon roller lever
 Code

PS42L-■▲BE-T00

		S11 	T11 	O11
		T02 	T20 	S02

Conformity / (NC) / (C)
 Max. Actuation speed 1.5ms
 Min. force or torque 0.10N / 0.32Nm
 Weight 135g

Adjustable lever with Ø 18 nylon roller
 Code

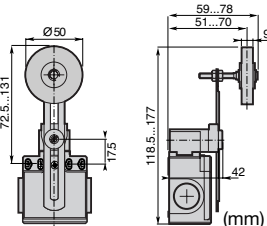
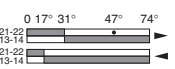
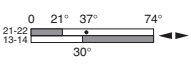
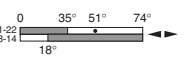
PS42L-■▲R1-T00

		S11 	T11 	O11
		T02 	T20 	S02

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

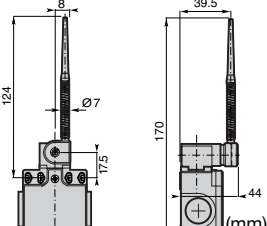
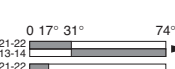
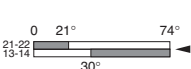
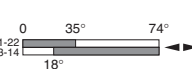
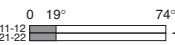
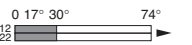
Adjustable lever with Ø 50 rubber roller
 Code

PS42L-■▲W1-T00

		S11 	T11 	O11 
		T02 	T20 	S02 

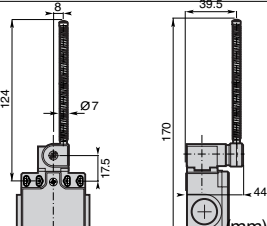
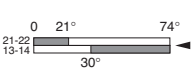
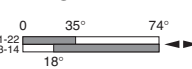
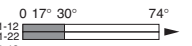
Conformity /  (NC) / 
Max. Actuation speed 1.5ms
Min. force or torque 0.10N / 0.32Nm
Weight 155g

Adjustable lever with adjustable Ø 50 rubber roller
Code PS42L-W2-T00

		S11 	T11 	O11 
		T02 	T20 	S02 

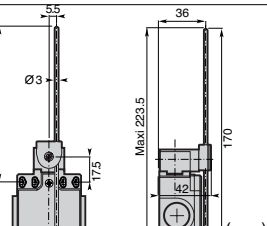
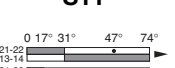
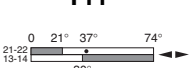
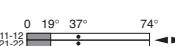
Conformity /  (NC) / 
Max. Actuation speed 1.5ms
Min. force or torque 0.10N / -
Weight 135g

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

		S11 	T11 	O11 
		T02 	T20 	S02 

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

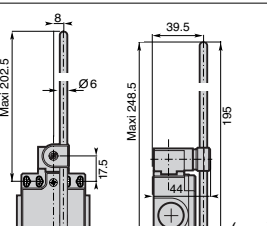
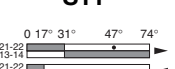
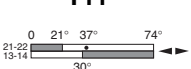
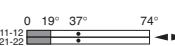
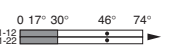
Stainless steel spring actuator
Code PS42L-LZ-T00

		S11 	T11 	O11 
		T02 	T20 	S02 

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

Adjustable rod lever
Code stainless steel rod Ø3
 fiberglass rod Ø3
 square steel rod 3x3

PS42L-LA-T00
 PS42L-LF-T00
 PS42L-L3-T00

		S11 	T11 	O11 
		T02 	T20 	S02 

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

Adjustable Ø 6 rod lever
Code nylon rod
 fiberglass rod

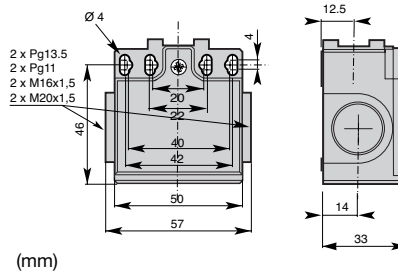
PS42L-LN-T00
 PS42L-LG-T00

Limit Switches - Limit Type (PS42) Plastic Body IP65

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■ 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)

(mm)

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)

Max. Actuation speed 1.0ms

Min. force or torque 0.12N / -

Weight 110g

Stainless steel spring multidirectional actuator

Code

PS42L-●▲LW-T00

		S11	T11	O11
		T02	T20	S02

Conformity / (NC)

Max. Actuation speed 1.0ms

Min. force or torque 0.12N / -

Weight 115g

Multidirectional stainless steel spring

Code nylon actuator

PS42L-●▲LP-T00

stainless steel spring actuator

PS42L-●▲LS-T00

		S11	T11	O11
		T02	T20	

Conformity / (NC)

Max. Actuation speed 0.5ms

Min. force or torque 30N / -

Weight 145g

Pull action with ring

Code

PS42L-●▲N6-T00