

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 million 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

Rated operational current

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

24V - 50/60 Hz	A	10
130V - 50/60 Hz	A	5.5
230V - 50/60 Hz	A	3.1
240V - 50/60 Hz	A	3
400V - 50/60 Hz	A	1.8

10

5.5

3.1

3

1.8

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

24 V - d.c.	A	2.8
110V-d.c.	A	0.6
250V - d.c	A	0,27

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:

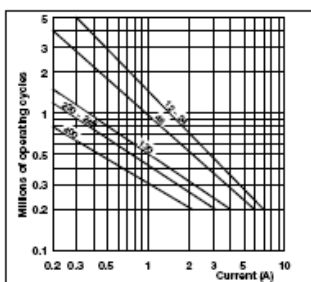
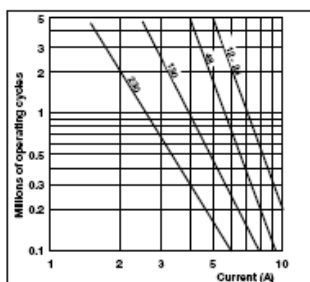


Diagram for non-overlapping slow action contacts:



Electrical durability for DC-3 utilization category

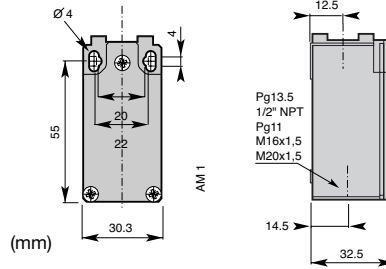
	Snap action	Slow action
	Power breaking for a durability of 5 million operating cycles	
Voltage 24V	9,5W	12W
Voltage 48V	6,8W	9W
Voltage 110V	3,6W	6W

Limit Switches - Limit Type (PS21) Metal Body IP66

CARLO GAVAZZI

• Cable Gland

- P** = one cable inlet PG13.5 cable gland
- M** = one cable inlet M20x1.5 cable gland
- N** = one cable inlet 1/2" NPT cable gland
- B** = one cable inlet PG11 cable gland
- A** = one 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) EN 50047 / (C)
 Max. Actuation speed 0.5ms
 Min. force or torque 15N / 30Nm
 Weight 180g

Plain Metal Plunger
Code

PS21L-P0-M00

		S11	T11	O11
		T02	T20	S02

Conformity / (NC) EN 50047 / (C)
 Max. Actuation speed 0.3ms
 Min. force or torque 12N / 30Nm
 Weight 190g

Roller Metal Plunger
Code

PS21L-PR-M00

		S11	T11	O11
		T02	T20	S02

Conformity / (NC) EN 50047 / (C)
 Max. Actuation speed 1.5ms
 Min. force or torque 0.10N / 0.32Nm
 Weight 235g

Ø 18 Nylon roller lever
Code metal roller
nylon roller


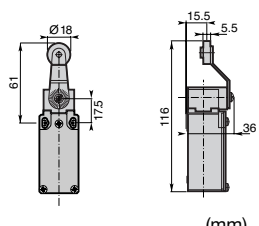
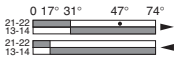
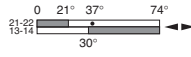
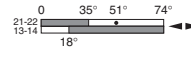

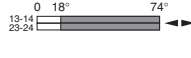
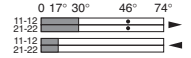
PS21L-RM-M00
PS21L-RT-M00

		S11	T11	O11
		T02	T20	S02

Conformity / (NC) EN 50047 / (C)
 Max. Actuation speed 1.5ms
 Min. force or torque 0.10N / 0.32Nm
 Weight 255g

Ø 50 Rubber roller lever
Code


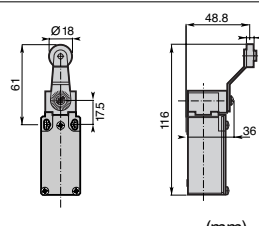
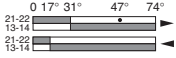
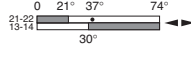
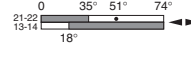


PS21L-W0-M00

		S11 	T11 	O11 
		T02 	T20 	S02 

Conformity / \rightarrow (NC) / \rightarrow
 Max. Actuation speed 1.5ms
 Min. force or torque 0.10N / 0.32Nm
 Weight 250g

Ø 18 Roller lever
 Code metal roller
 nylon roller


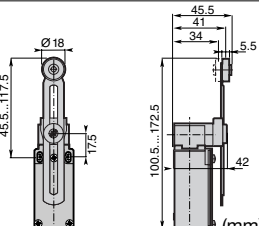
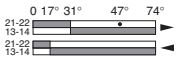
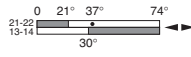
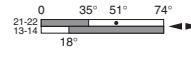
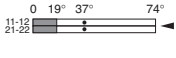
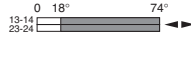
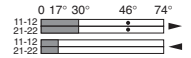
PS21L-  BM-M00
 PS21L-  BR-M00

		S11 	T11 	O11 
		T02 	T20 	S02 

Conformity / \rightarrow (NC) / \rightarrow
 Max. Actuation speed 1.5ms
 Min. force or torque 0.10N / 0.32Nm
 Weight 250g

Ø 18 Roller lever
 Code nylon roller


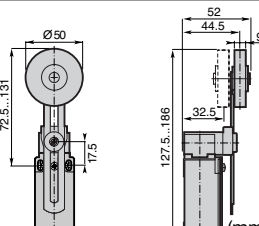
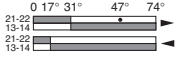
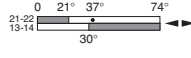
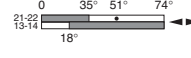
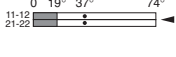
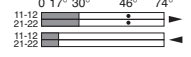
PS21L-  BE-M00

		S11 	T11 	O11 
		T02 	T20 	S02 

Conformity / \rightarrow (NC) / \rightarrow
 Max. Actuation speed 1.5ms
 Min. force or torque 0.10N / 0.32Nm
 Weight 245g

Adjustable lever with Ø 18 nylon roller
 Code


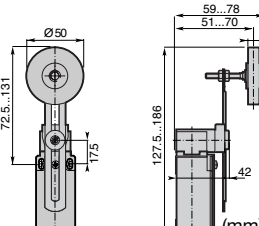
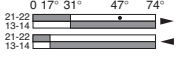
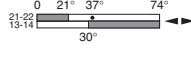
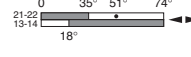
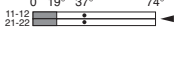

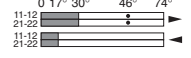
PS21L-  R1-M00

		S11 	T11 	O11 
		T02 	T20 	S02 

Conformity / \rightarrow (NC) / \rightarrow
 Max. Actuation speed 1.5ms
 Min. force or torque 0.10N / 0.32Nm
 Weight 265g

Adjustable lever with Ø 50 rubber roller
 Code

PS21L-  W1-M00

		S11 	T11 	O11 
		T02 	T20 	S02 

Conformity / \rightarrow (NC) / \rightarrow
 Max. Actuation speed 1.5ms
 Min. force or torque 0.10N / 0.32Nm
 Weight 265g

Adjustable lever with adjustable Ø 50 rubber roller
 Code

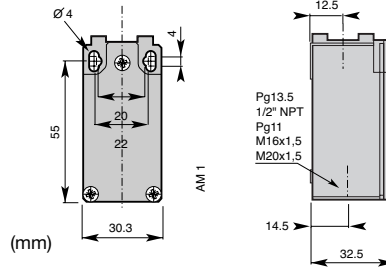
PS21L-  W2-M00

Limit Switches - Limit Type (PS21) Metal Body IP66

CARLO GAVAZZI

• Cable Gland

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

Max. Actuation speed	1.5ms
Min. force or torque	0.10N / -
Weight	245g

Stainless steel spring

Code nylon actuator
stainless steel spring actuator

PS21L-●▲LB-M00
PS21L-●▲LZ-M00

			S11	T11	O11
			T02	T20	S02

Conformity / (NC)

Max. Actuation speed	1.5ms
Min. force or torque	0.10N / 0.32
Weight	245g

Adjustable rod lever

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

PS21L-●▲LA-M00
PS21L-●▲LF-M00
PS21L-●▲L3-M00

			S11	T11	O11
			T02	T20	S02

Conformity / (NC)

Max. Actuation speed	1.5ms
Min. force or torque	0.10N / 0.32Nm
Weight	255g

Adjustable Ø6 rod lever

Code nylon rod
fiberglass rod

PS21L-●▲LN-M00
PS21L-●▲LG-M00