

Technical Data

Standards

Certifications – Approvals

Air temperature near the device

- during operation

- for storage

°C

°C

Mounting positions

Protection against electrical shocks (acc.to IEC 536)

Degree of protection (according to IEC 529 and EN 60 529)

Degree of protection (according to UL50)

Plastic Body

Metal body

Devices conform with international IEC 947-5- and European EN 60-947-5- standards

UL (upon request)

-25 ... +70

-25 ... +70

-40 ... +70

-40 ... +70

All positions are authorized

Class II

IP67

Type 1 enclosure

("indoor use only")

Class I

IP67

Type 4 - 4X - 6 enclosure

("outdoor use - raintight - watertight corrosion resistant")

Electrical Data

Rated insulation voltage U_i

-according to IEC 947-1 and EN 60-947-1

V

400 (degree of pollution 3)

Rated impulse withstand voltage U_{imp}

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

kV

4

Conventional enclosed thermal current I_{th}

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

A

5

Short-circuit protection - gG type fuses

A

6

Rated operational current

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

24V - 50/60 Hz A

5.0

120V - 50/60 Hz A

3.0

240V - 50/60 Hz A

1.5

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

24V - d.c. A

1.1

110V - d.c. A

0.22

250V - d.c. A

0.1

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

- max. switching frequency Cycles/h

- load factor

mΩ

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

3600

0.5

Resistance between contacts

Mechanical durability

25

10 millions of operations

Diagram for snap action contacts:

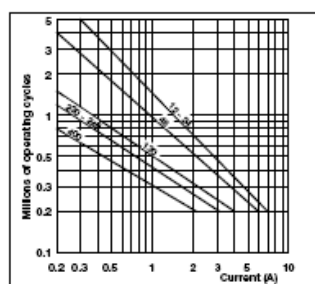
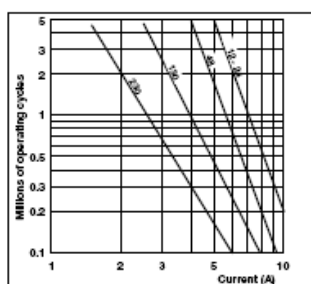


Diagram for non-overlapping slow action contacts:



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

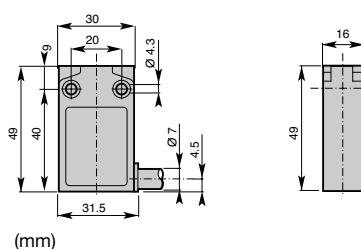
6W

Limit Switches - Miniature Type (PS21M) Plastic Body IP67

CARLO GAVAZZI

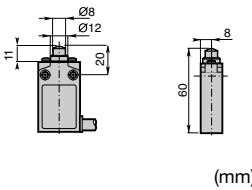
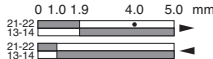
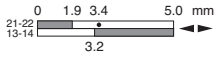
Cable Characteristics

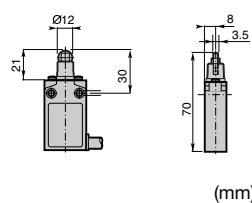
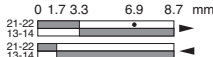
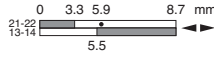
Pre-wired
cable: PVC 4x0.75 mm²
Length: 1m
(Different lengths available on request)

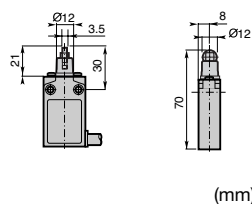
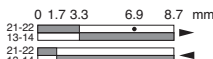
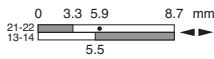


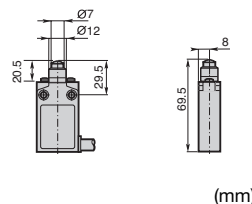
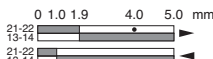
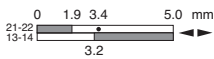
▲ Contact block (Zb type)

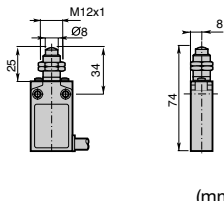
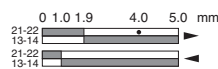
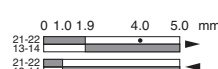
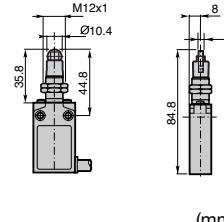
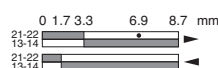
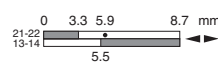
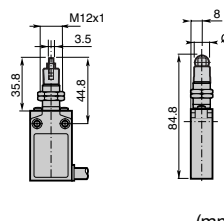
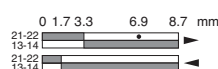
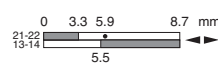
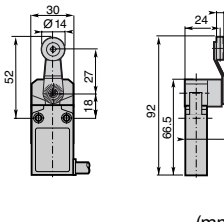
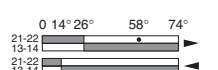
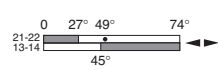
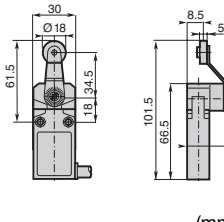
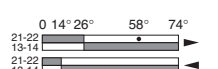
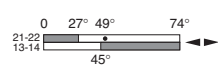
S11 (1NO+1NC) Snap Action		T11 (1NO+1NC) Non overlapping Slow action	
-------------------------------------	--	--	--

		S11 	T11 
Conformity / (NC) / (NC)		Plain Plunger	PS21M-C  P0-T00
Max. Actuation speed 0.5ms		Code	
Min. force or torque 15N / 30Nm			
Weight 125g			

		S11 	T11 
Conformity / (NC) / (NC)		Roller Plunger	PS21M-C  PR-T00
Max. Actuation speed 0.1ms		Code Metal roller	PS21M-C  PY-T00
Min. force or torque 10N / 30Nm		Nylon roller	
Weight 130g			

		S11 	T11 
Conformity / (NC) / (NC)		Cross roller plunger	PS21M-C  P9-T00
Max. Actuation speed 0.1ms		Code Metal roller	PS21M-C  P8-T00
Min. force or torque 10N / 30Nm		Nylon roller	
Weight 130g			

		S11 	T11 
Conformity / (NC) / (NC)		Plain plunger with dust protection cup	PS21M-C  PH-T00
Max. Actuation speed 0.5ms		Code	
Min. force or torque 15N / 30Nm			
Weight 130g			

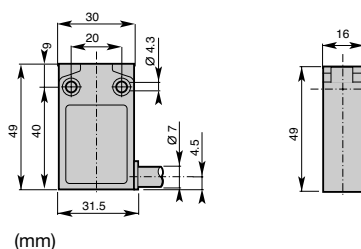
			
Conformity / (NC) / (C)		Pain plunger with fixing nuts	
Max. Actuation speed 0.5ms		Code	
Min. force or torque 15N / 30Nm		PS21M-C 	
Weight 140g		P0-T0L	
			
Conformity / (NC) / (C)		Roller plunger with fixing nuts	
Max. Actuation speed 0.1ms		Code metal roller	
Min. force or torque 10N / 30Nm		nylon roller	
Weight 145g		PS21M-C 	
		PR-T0L	
		PS21M-C 	
		PY-T0L	
			
Conformity / (C) / (NC)		Cross roller plunger with fixing nuts	
Max. Actuation speed 0.1ms		Code metal roller	
Min. force or torque 10N / 30Nm		nylon roller	
Weight 145g		PS21M-C 	
		P9-T0L	
		PS21M-C 	
		P8-T0L	
			
Conformity / (C) / (NC)		Ø14 roller lever	
Max. Actuation speed 1.5ms		Code nylon roller	
Min. force or torque 0.08N / 0.28Nm		metal roller	
Weight 175g		ball bearing	
		PS21M-C 	
		RT-T00	
		PS21M-C 	
		RS-T00	
		PS21M-C 	
		RO-T00	
			
Conformity / (C) / (NC)		Ø18 nylon roller lever	
Max. Actuation speed 1.5ms		Code	
Min. force or torque 0.08N / 0.28Nm		PS21M-C 	
Weight 180g		BR-T00	

Limit Switches - Miniature Type (PS21M) Plastic Body IP67



Cable Characteristics

Pre-wired
cable: PVC 4x0.75 mm²
Length: 1m
(Different lengths available on request)



▲ Contact block (Zb type)

S11 (1NO+1NC) Snap Action		T11 (1NO+1NC) Non overlapping Slow action	
-------------------------------------	--	--	--

		S11 	T11
--	--	----------------	----------------

Conformity / (NC)	/ (NC)
Max. Actuation speed	1.5ms
Min. force or torque	0.08N / 0.28Nm
Weight	190g

Adjustable lever with Ø18 nylon roller
Code **PS21M-C ▲ R1-T00**

		S11 	T11
--	--	----------------	----------------

Conformity / (NC)	/ (NC)
Max. Actuation speed	1.5ms
Min. force or torque	0.08N / -
Weight	190g

Nylon actuator with stainless steel spring
Code **PS21M-C ▲ LB-T00**

		S11 	T11
--	--	----------------	----------------

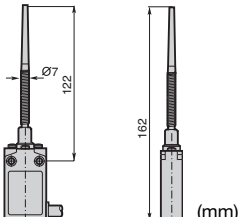
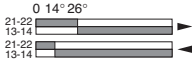
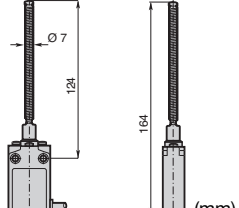
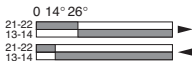
Conformity / (NC)	/ (NC)
Max. Actuation speed	1.5ms
Min. force or torque	0.08N / 0.28Nm
Weight	185g

Adjustable rod lever
Code stainless steel rod Ø3
fiberglass rod Ø3
square steel rod 3x3
PS21M-C ▲ LA-T00
PS21M-C ▲ LF-T00
PS21M-C ▲ L3-T00

		S11 	T11
--	--	----------------	----------------

Conformity / (NC)	/ (NC)
Max. Actuation speed	1.5ms
Min. force or torque	0.08N / 0.28Nm
Weight	200g

Adjustable Ø6 rod lever
Code Nylon rod
fiberglass rod
PS21M-C ▲ LN-T00
PS21M-C ▲ LG-T00

		S11 	
Conformity / (NC) /  Max. Actuation speed 1.0ms Min. force or torque 0.10N / - Weight 195g		Multidirectional nylon actuator with stainless steel spring Code PS21M-C  LP-T00	
		S11 	
Conformity / (NC) /  Max. Actuation speed 1.0ms Min. force or torque 0.10N / - Weight 200g		Multidirectional actuator with stainless steel spring Code PS21M-C  LS-T00	