Limit Switches - Safety Type Plastic Body IP65 and Metal Body IP66



- High mechanical resistant
- Double Insulation ⧈ (for thermoplastic type)
- Degree of protection IP65 (thermoplastic) IP66 (metal)
- Reinforced UL-V0 thermoplastic fiber-glass body
- Zinc alloy (Zamack) or 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:
For monitoring and protection of industrial machines, without inertia, in which down-time is less than access time to the dangerous area.
Use on sliding or pivoting protectors (covers, cases, doors, grids, etc.).
To protect operators working on dangerous machines, by opening the control circuit. Withdrawal of key by opening the mobile protector, causes immediate stopping of the machine drive.
Specific limit switches ideal for monitoring and protection of light industrial machines without inertia, equipped with angular movement protectors (doors, hinges, rotative covers, grid, etc.).
Detection by the rotative axis or by means of a lever. Opening of the mobile protector guarantees operator protection by immediately stopping the machine drive.
To control the access point of the hazardous area.

Ordering Key

PS21S-PS1105-T00

Body
Cable Gland
Contact block
Head type
Material of body and head
Options

Description of the key codes

for Key actuator (key must be ordered separately) Hinge and Wire					
PS21S	P	S11	05	T	00
PS42S	N	S02	09	Y	
PS21H	B	T11	HZ		
PS42H	A	O11	HS		
	M	T02	HC		
PS21R			N6		
PS42R			N7		K0[4]

for Key actuator (key must be ordered separately) and Wire					
PS31S	P	S11	05	Y	00
PS43S	N	S02		T[5]	
	M	T11			
PS31R		O11	N7		
PS43R		T02	N7		K0[4]
		T21			
		T12			
		T03			

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(+)
T03	3NC slow(+)
T11	1NO+1NC slow(+)
T12	1NO+2NC slow(+)
T21	2NO+1NC slow(+)

Material of body and head

T	Thermoplastic Body and Thermoplastic head
Y	Metal Body and Thermoplastic head

Body

PS21H	PS 30mm/1.18” (fix 20/22mm/0.79”/0.87”) 1 cable inlet for hinge (shaft or pin)
PS42H	PS 50mm/1.97” (fix 40/42mm/1.57”/1.65”) 2 cable inlet for hinge (shaft or pin)
PS21R	PS 30mm/1.18” (fix 20/22mm/0.79”/0.87”) 1 cable inlet for pull wire
PS31R	PS 40mm/1.57” (fix 30mm/1.18”) 1 cable inlet for pull wire
PS42R	PS 50mm/1.97” (fix 40/42mm/1.57”/1.65”) 2 cable inlet for pull wire
PS43R	PS 60mm/2.36” (fix 40/42mm/1.57”/1.65”) 3 cable inlet for pull wire
PS21S	PS 30mm/1.18” (fix 20/22mm/0.79”/0.87”) 1 cable inlet for Key actuator
PS31S	PS 40mm/1.57” (fix 30mm/1.18”) 1 cable inlet for Key actuator
PS42S	PS 50mm/1.97” (fix 40/42mm/1.57”/1.65”) 2 cable inlet for Key actuator
PS43S	PS 60mm/2.36” (fix 40/42mm/1.57”/1.65”) 3 cable inlet for Key actuator

Head type

05	90° Adj. key head
09	Fully turnable key head
HC	Zinc plated steel LEVER
HS	Stainless steel shaft
HZ	Zinc plated steel shaft
N6	Pull wire for simple stop
N7	Pull wire for emergency stop

Options

00	no option
K0	with reset button

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Technical Data

	Plastic Body	Metal body
Standards	**IEC 60947-1, IEC 60947-5-1, EN 60947-1, EN 60947-5-1, UL508 and CSA C22-2 n°14**	
Certifications – Approvals	**UL – CSA**	
Air temperature near the device		
- during operation	**-25°C…+70°C/-13°F...158°F**	
- for storage	**-30°C…+80°C/-22°F...+176°F**	
Climatic withstand	**According to IEC 68-2-3 and salty mist according to IEC 68-2-11**	
Mounting positions	**All positions are authorized**	
Shock withstand (according to IEC 68-2-27 and 60068-2-27)	**10g/0.35oz** Limit switch with **key actuator**	
(1/2 sinusoidal shock for 11ms) no change in contact position	**40g/1.41oz** Limit switch for **hinge (pin/shaft) or pull wire (rope)**	
Protection against electrical shocks (according to IEC 536)	**Class II**	**Class I**
Degree of protection (according to IEC 529 and EN 60529)	**IP65**	**IP66**

Electrical Data

			Plastic Body	Metal body
Rated insulation voltage U_i				
-according to IEC 60947-1 and EN 60947-1			**500V** (degree of pollution 3)	**400V** (PS21,PS42), **500V** (PS31,PS43) (degree of pollution 3)
-according to UL 508, CSA C22-2 n°14			**A 600 Q600**	**A 300 Q 300** (PS21, PS42) **A 600 Q 600** (PS31, PS43)
Rated impulse withstand voltage U_{imp} (according to IEC 60947-1 and EN 60947-1)			**6kV**	
Conventional enclosed thermal current I_{the} (according to IEC 60947-1 and EN 60947-5-1) (θ≤40°C)			**10A**	
Short-circuit protection - gG type fuses			**10A**	
Rated operational current				
I_e / AC-15	- acc.to IEC 60947-5-1	24VAC (50/60 Hz)	**10.0A**	
		130VAC (50/60 Hz)	**5.5A**	
		230VAC (50/60 Hz)	**3.1A**	
		240VAC (50/60 Hz)	**3.0A**	
		400VAC (50/60 Hz)	**1.8A**	
	- acc.to UL 508, CSA C22 n°14		**Q 600**	**Q 300** (PS21/42) **Q 600** (PS31/43)
I_e / DC-13	- acc.to IEC 60947-5-1	24VDC	**2.8A**	
		110VDC	**0.6A**	
		250VDC	**0.27A**	
	- acc.to UL 508, CSA C22 n°14		**Q 600**	**Q 300** (PS21/42) **Q 600** (PS31/43)
Electrical durability (according to IEC 60497-5-1 annex C)			Utilization categories AC-15 and DC-13 (see curves and value below)	
- max. switching frequency Cycles/h			**3600**	
- load factor			**0.5**	
Connecting data of contact blocks				
Connecting terminals			**M3.5 (+,-) pozidriv 2 screw with cable clamp**	
Connecting capacity 1 or 2 x mm² / AWG			**0.5mm² / AWG 20 to 2.5mm² / AWG 14**	
Terminal marking			**According to EN 50013**	
Positivity			Contacts with positive opening operation as per IEC 60947-5-1 chapter 3	

Diagram for snap action contact:

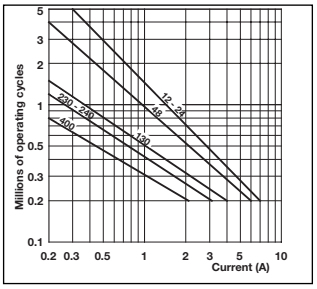
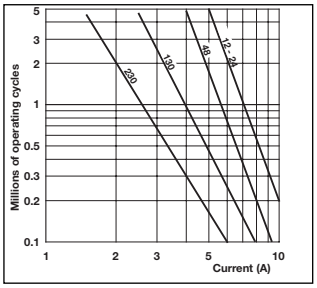


Diagram for slow action contact:



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

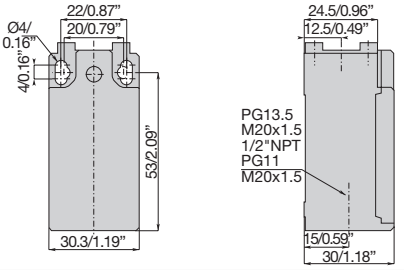
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Limit Switches - Limit Type (PS21S/H/R)
Plastic Body IP65

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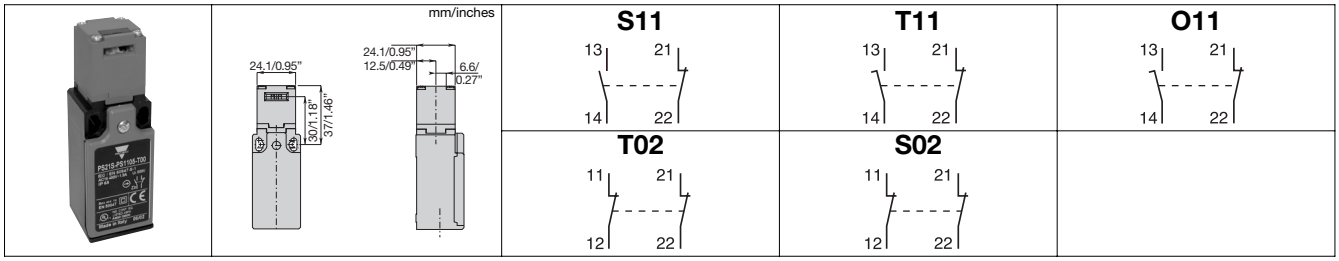
● Cable Gland

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

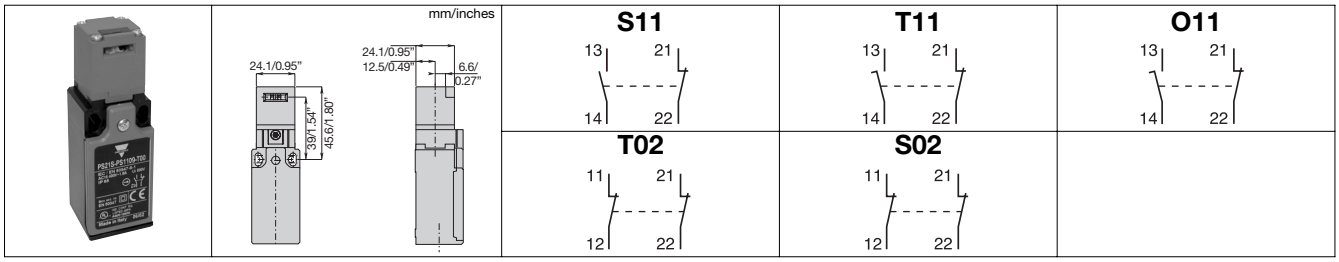


▲ Contact block (Zb type)

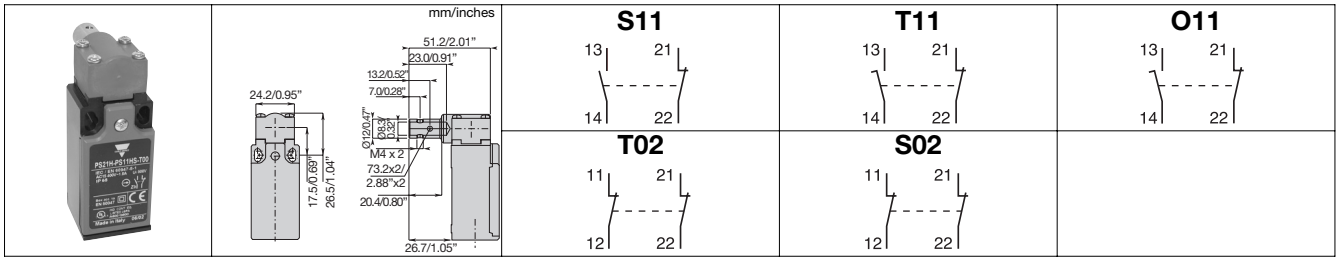
S11 (1NO+1NC) Snap Action	**T11** (1NO+1NC) Non overlapping Slow action	**O11** (1NO+1NC) Overlapping Slow Action
T02 (2NC) Slow Action	**S02** (2NC) Snap Action	



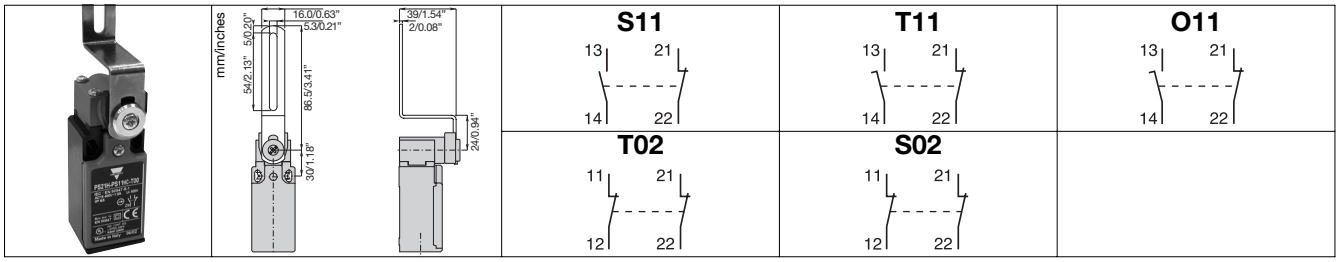
Conformity /⊖ (NC)	EN 50047 /⊖	**90° adjustable head**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS21S-● ▲05-T00**
Min. force or torque	15N / 30Nm		
Weight	78.0g / 2.751oz		



Conformity /⊖ (NC)	EN 50047 /⊖	**Fully turnable head**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS21S-● ▲09-T00**
Min. force or torque	15N / 30Nm		
Weight	99.0g / 3.492oz		



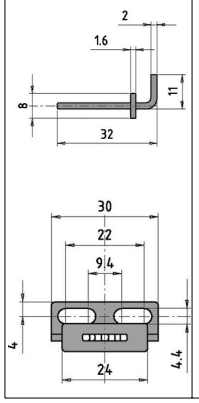
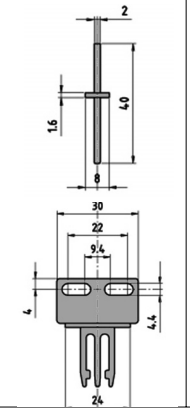
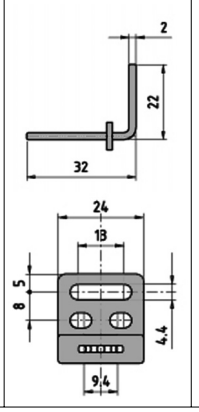
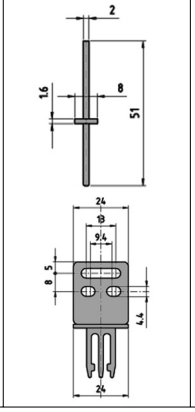
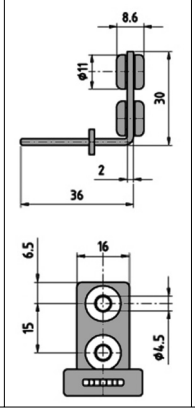
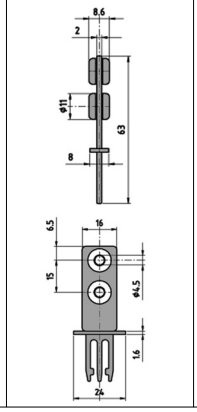
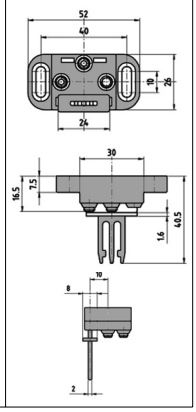
Conformity /⊖ (NC)	EN 50047 /⊖	**Shaft for hinge**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code** Zinc plated steel	**PS21H-● ▲HZ-T00**
Min. force or torque	0.12N / 0.60Nm	Stainless steel	**PS21H-● ▲HS-T00**
Weight	98.0g / 3.457oz		



Conformity /⊖ (NC)	EN 50047 /⊖	**Zinc plated steel lever**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS21H-● ▲HC-T00**
Min. force or torque	0.12N / 0.60Nm		
Weight	117.0g / 4.127oz		

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Operating Key

						
K13 Bent Key 22mm/0.87”	**K14** Flat Key 22mm/0.87”	**K15** Bent Key 13mm/0.51”	**K16** Flat Key 13mm/0.51”	**K17** Shock absorbing bent key	**K18** Shock absorbing flat key	**K19** Adjustable joint key
						

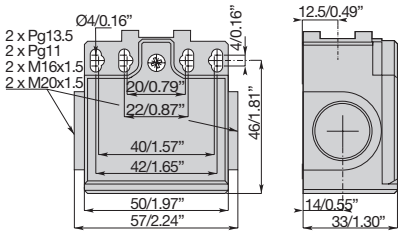
Accessories for Pull Wire Limit Switches

			
OCC 8 Stay Bolt	**MOR 05** Rope Clamp	**RED 05** Rope Eye	**FUN 05** Rope 5mm x 100m 0.20” x 328.08ft

Limit Switches - Safety Type (PS42S/H/R)
Plastic Body IP65

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● Cable Gland

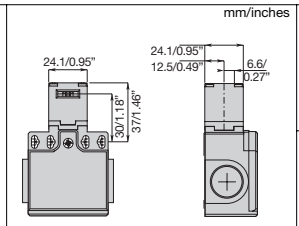


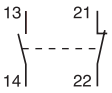
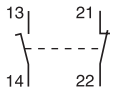
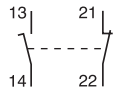
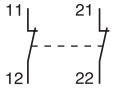
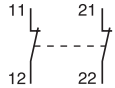
P = one cable inlet PG13.5 cable gland
M = one cable inlet M20x1.5 cable gland
N = one cable inlet 1/2" NPT cable gland
B = one cable inlet PG11 cable gland
A = one cable inlet M16x1.5 cable gland

▲ 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	**S02** (2NC) Snap Action	

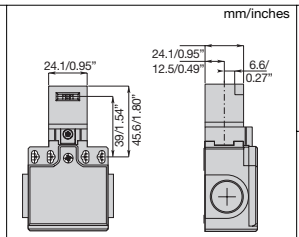


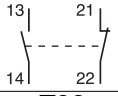
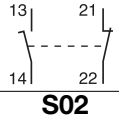
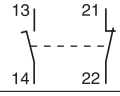
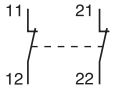
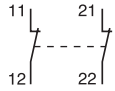


S11

T11

O11

T02

S02


Conformity /⊖ (NC)	EN 50047 /⊖	**90° adjustable head**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS42S-● ▲05-T00**
Min. force or torque	15N / 30Nm		
Weight	114.0g / 4.021oz		

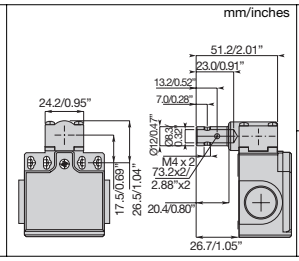


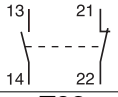
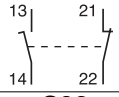
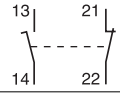
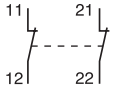
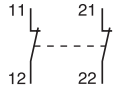


S11

T11

O11

T02

S02


Conformity /⊖ (NC)	EN 50047 /⊖	**Fully turnable head**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS42S-● ▲09-T00**
Min. force or torque	15N / 30Nm		
Weight	125.0g / 4.409oz		

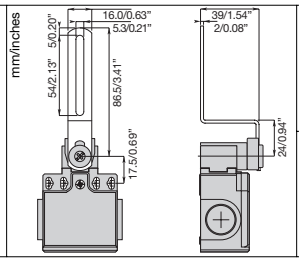


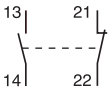
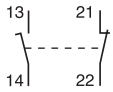
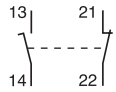
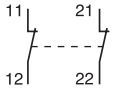
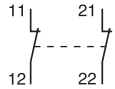


S11

T11

O11

T02

S02


Conformity /⊖ (NC)	EN 50047 /⊖	**Shaft for hinge**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code** Zinc plated steel	**PS42H-● ▲HZ-T00**
Min. force or torque	0.12N / 0.60Nm	Stainless steel	**PS42H-● ▲HS-T00**
Weight	128.0g / 4.515oz		



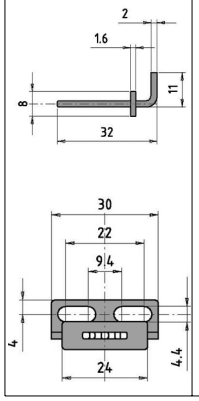
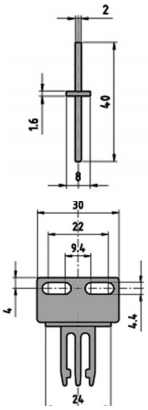
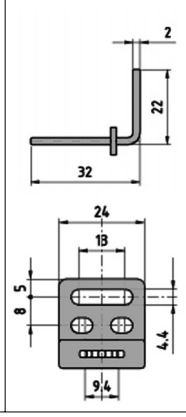
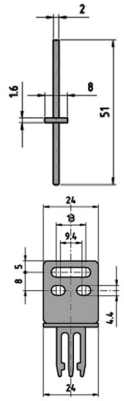
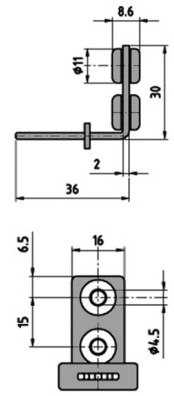
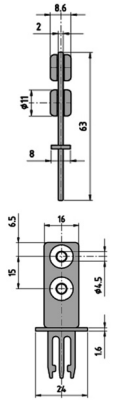
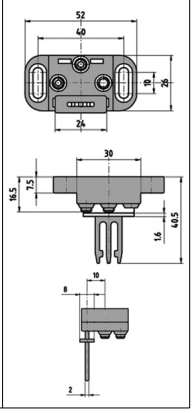


S11

T11

O11

T02

S02


Conformity /⊖ (NC)	EN 50047 /⊖	**Zinc plated steel lever**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS42H-● ▲HC-T00**
Min. force or torque	0.12N / 0.60Nm		
Weight	152.0g / 5.362oz		

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Operating Key

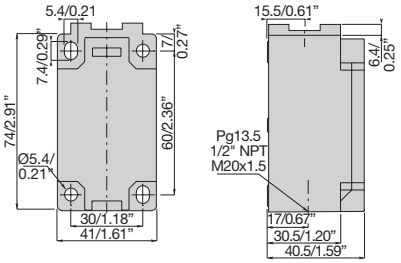
						
K13 Bent Key 22mm/0.87”	**K14** Flat Key 22mm/0.87”	**K15** Bent Key 13mm/0.51”	**K16** Flat Key 13mm/0.51”	**K17** Shock absorbing bent key	**K18** Shock absorbing flat key	**K19** Adjustable joint key
						

Accessories for Pull Wire Limit Switches

			
OCC 8 Stay bolt	**MOR 05** Rope Clamp	**RED 05** Rope Eye	**FUN 05** Rope 5mm x 100m 0.20” x 328.08ft

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Limit Switches - Safety Type (PS31S) plastic Body IP65



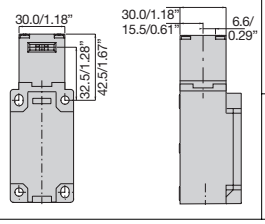
● Cable Gland

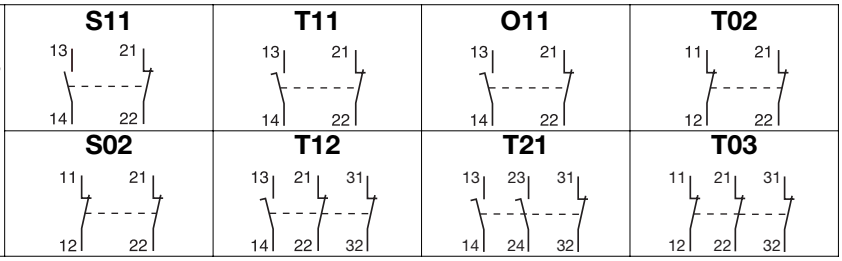
P = one cable inlet PG13.5 cable gland
M = one cable inlet M20x1.5 cable gland
N = one cable inlet 1/2" NPT cable gland

▲ 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
S02 (2NC) Snap action	**T12** (1NO+2NC) Non overlapping Slow action	**T21** (2NO+1NC) Non overlapping Slow action	**T03** (3NC) Simultanous Slow action







Conformity /⊖ (NC)	EN 50041 /⊖	**Key operated 90° adjustable head**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS31S-● ▲05-T00**
Min. force or torque	30N / 45Nm		
Weight	158.0g / 5.573oz		

Operating Key



K35

Bent Key
13mm/0.51"



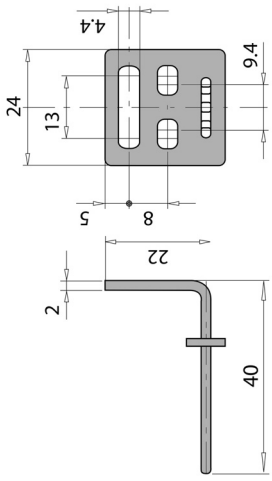
K36

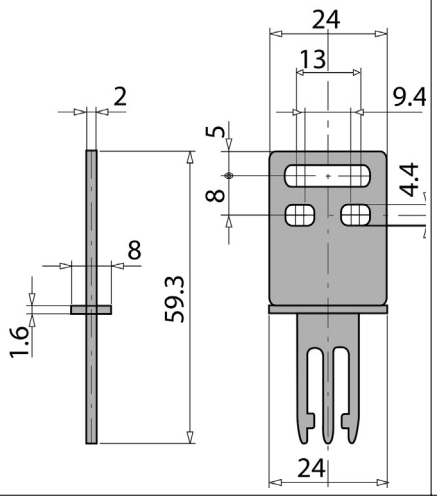
Flat Key
13mm/0.51"

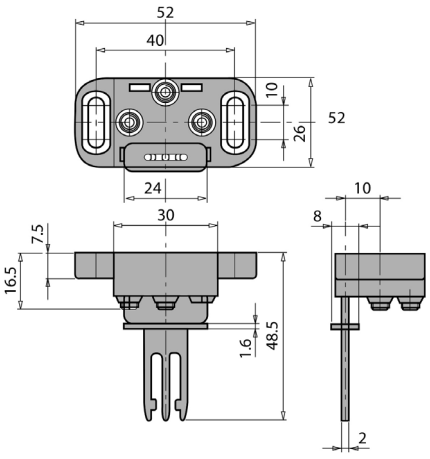


K39

Adjustable Joint Key







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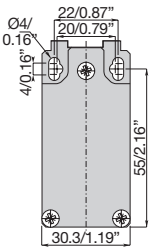
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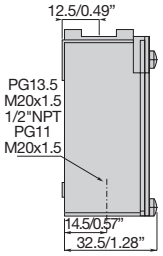
Limit Switches - Safety Type (PS21S/H/R) Metal Body IP66

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

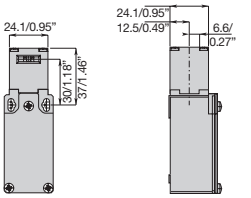




▲ Contact block (Zb type)

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

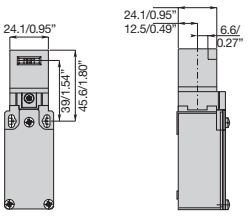




S11 13 21 / 14 22 — **T11** 13 21 / 14 22 — **O11** 13 21 / 14 22
T02 11 21 / 12 22 — **S02** 11 21 / 12 22

Conformity /⊖ (NC)	EN 50047 /⊖	**90° adjustable head**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS21S-● ▲05-Y00**
Min. force or torque	15N / 30Nm		
Weight	177.0g / 6.243oz		

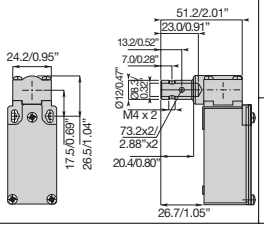




S11 13 21 / 14 22 — **T11** 13 21 / 14 22 — **O11** 13 21 / 14 22
T02 11 21 / 12 22 — **S02** 11 21 / 12 22

Conformity /⊖ (NC)	EN 50047 /⊖	**Fully turnable head**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS21S-● ▲09-Y00**
Min. force or torque	15N / 30Nm		
Weight	195.0g / 6.878oz		

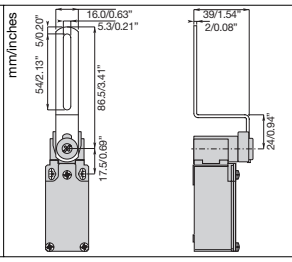




S11 13 21 / 14 22 — **T11** 13 21 / 14 22 — **O11** 13 21 / 14 22
T02 11 21 / 12 22 — **S02** 11 21 / 12 22

Conformity /⊖ (NC)	EN 50047 /⊖	**Shaft for hinge**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code** Zinc plated steel	**PS21H-● ▲HZ-Y00**
Min. force or torque	0.12N / 0.60Nm	Stainless steel	**PS21H-● ▲HS-Y00**
Weight	195.0g / 6.878oz		



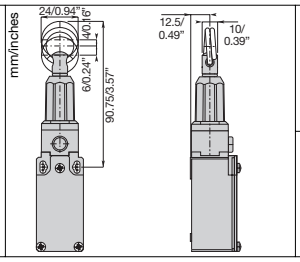


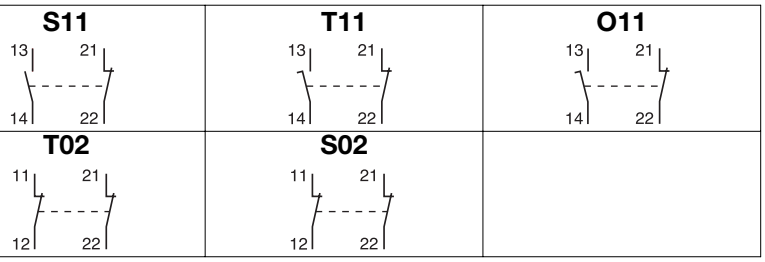
S11 13 21 / 14 22 — **T11** 13 21 / 14 22 — **O11** 13 21 / 14 22
T02 11 21 / 12 22 — **S02** 11 21 / 12 22

Conformity /⊖ (NC)	EN 50047 /⊖	**Zinc plated steel lever**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS21H-● ▲HC-Y00**
Min. force or torque	0.12N / 0.60Nm		
Weight	213.0g / 7.513oz		

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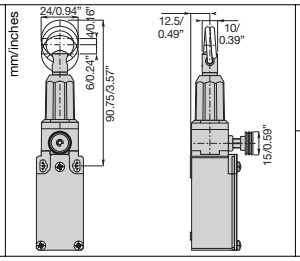


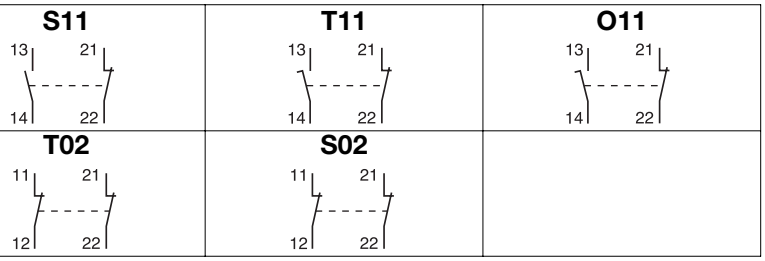




Conformity /⊖ (NC)	/ ⊖	**Pull wire without reset for simple stop**	
Max. Actuation speed	-	**Code**	**PS21R-● ▲ N6-Y00**
Max wire lenght	6m/19.68ft ÷ 15m/49.21ft		
Weight	226.0g / 7.972oz		

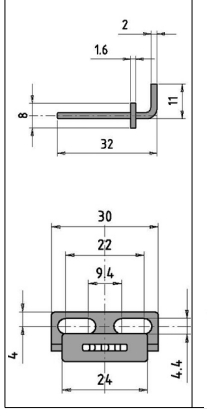
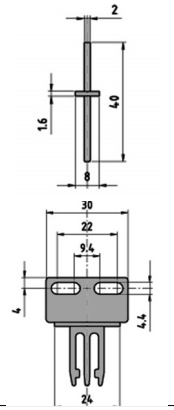
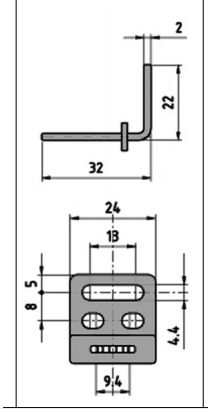
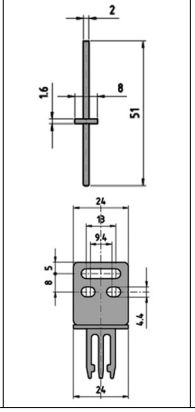
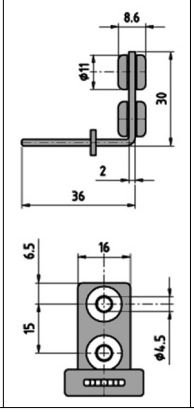
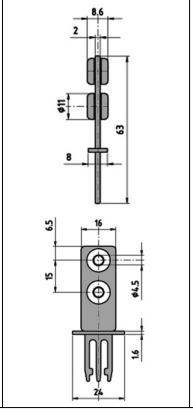
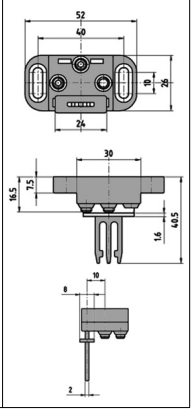






Conformity /⊖ (NC)	EN 50047 /⊖	**Pull wire with reset for emergency stop**	
Max. Actuation speed	-	**Code**	**PS21R-● ▲ N7-YK0**
Max wire lenght	6m/19.68ft ÷ 15m/49.21ft		
Weight	231.0g / 8.148oz		

Operating Key

						
K13 Bent Key 22mm/0.87”	**K14** Flat Key 22mm/0.87”	**K15** Bent Key 13mm/0.51”	**K16** Flat Key 13mm/0.51”	**K17** Shock absorbing bent key	**K18** Shock absorbing flat key	**K19** Adjustable joint key
						

Accessories for Pull Wire Limit Switches

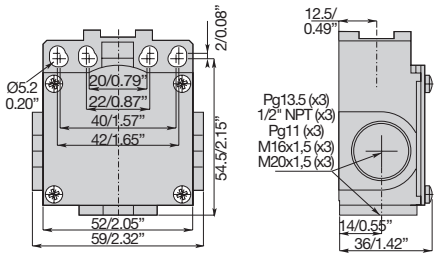
			
OCC 8 Stay bolt	**MOR 05** Rope Clamp	**RED 05** Rope Eye	**FUN 05** Rope 5mm x 100m 0.20” x 328.08ft

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Limit Switches - Safety Type (PS42S/H/R)
Metal Body IP66

CARLO GAVAZZI

● Cable Gland



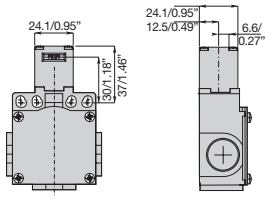
P = one cable inlet PG13.5 cable gland
M = one cable inlet M20x1.5 cable gland
N = one cable inlet 1/2" NPT cable gland
B = one cable inlet PG11 cable gland
A = one cable inlet M16x1.5 cable gland

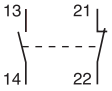
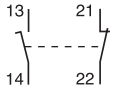
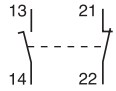
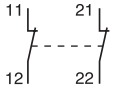
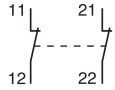
▲ Contact block (Zb type)

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



mm/inches

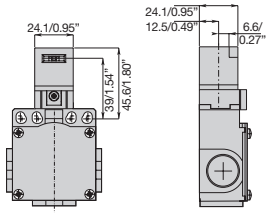


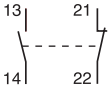
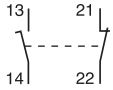
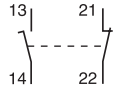
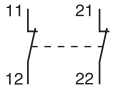
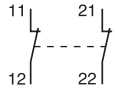
S11 
T11 
O11 
T02 
S02 

Conformity /⊖ (NC)	EN 50047 /⊖	**90° adjustable head**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS42S-● ▲05-Y00**
Min. force or torque	15N / 30Nm		
Weight	285.0g / 10.053oz		



mm/inches

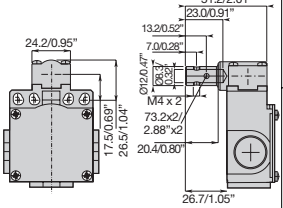


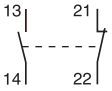
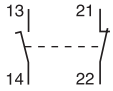
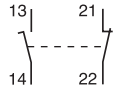
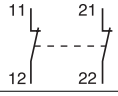
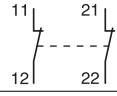
S11 
T11 
O11 
T02 
S02 

Conformity /⊖ (NC)	EN 50047 /⊖	**Fully turnable head**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS42S-● ▲09-Y00**
Min. force or torque	15N / 30Nm		
Weight	296.0g / 10.441oz		



mm/inches

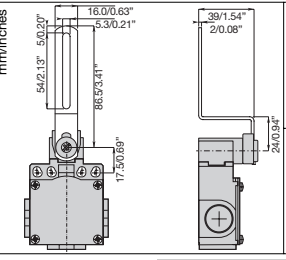


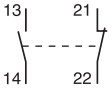
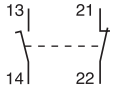
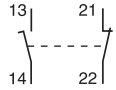
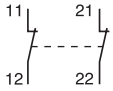
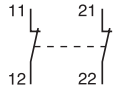
S11 
T11 
O11 
T02 
S02 

Conformity /⊖ (NC)	EN 50047 /⊖	**Shaft for hinge**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code** Zinc plated steel	**PS42H-● ▲HZ-Y00**
Min. force or torque	0.12N / 0.60Nm	Stainless steel	**PS42H-● ▲HS-Y00**
Weight	297.0g / 10.476oz		



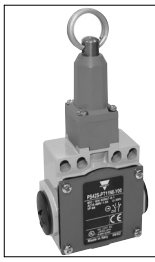
mm/inches

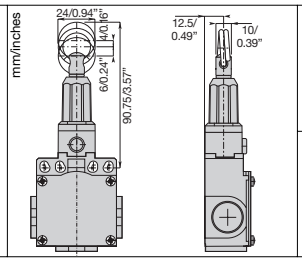


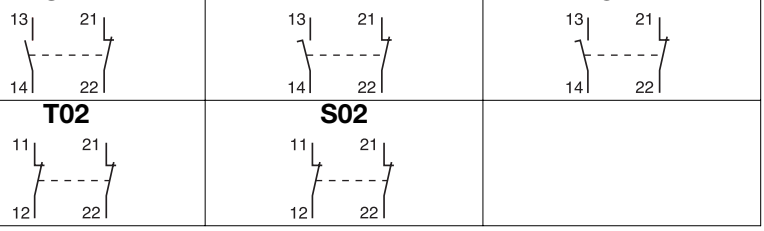
S11 
T11 
O11 
T02 
S02 

Conformity /⊖ (NC)	EN 50047 /⊖	**Zinc plated steel lever**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS42H-● ▲HC-Y00**
Min. force or torque	0.12N / 0.60Nm		
Weight	297.0g / 10.476oz		

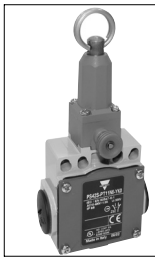
ООО «Сенсорен Электро» +7(495)150-48-00 info@sensoren.ru
Sensoren

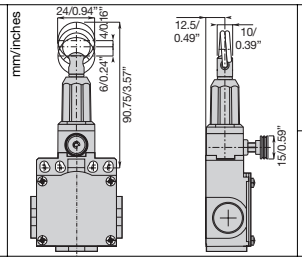


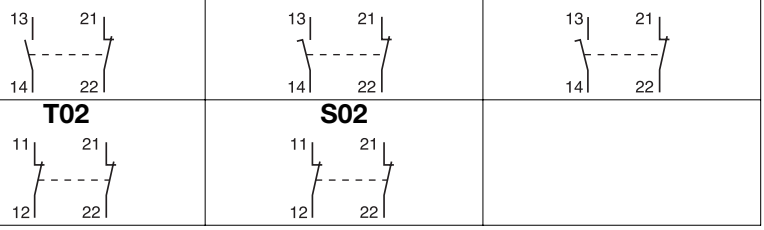




Conformity /⊖ (NC)	/ ⊖	**Pull wire without reset for simple stop**	
Max. Actuation speed	-	**Code**	**PS42R-● ▲ N6-Y00**
Max wire lenght	6m/19.68ft ÷ 15m/49.21ft		
Weight	292.0g / 10.300oz		





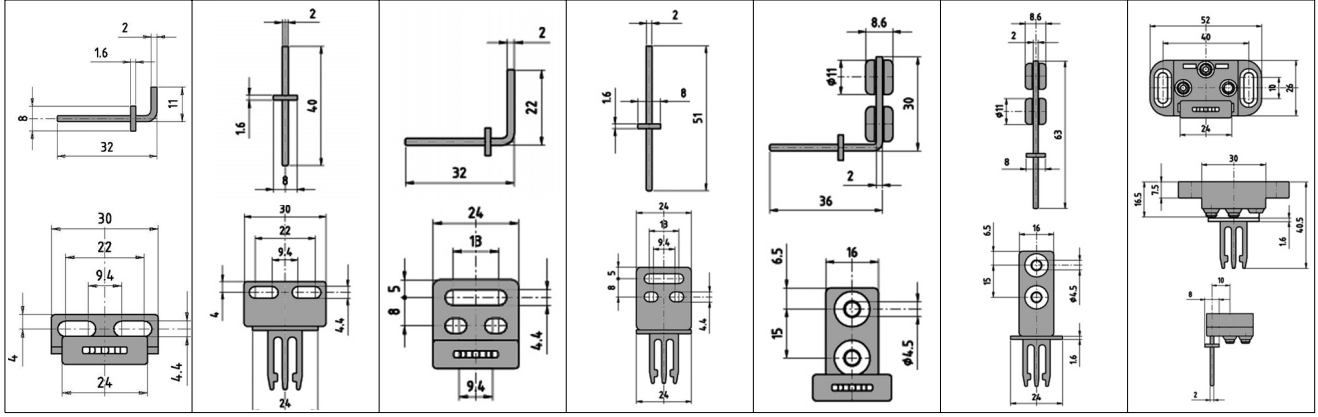


Conformity /⊖ (NC)	EN 50047 /⊖	**Pull wire with reset for emergency stop**	
Max. Actuation speed	-	**Code**	**PS42R-● ▲ N7-YK0**
Max wire lenght	6m/19.68ft ÷ 15m/49.21ft		
Weight	297.0g / 10.476oz		

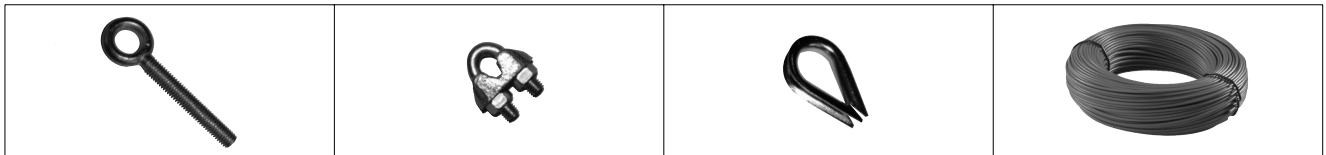
Operating Key



K13	K14	K15	K16	K17	K18	K19
Bent Key 22mm/0.87”	Flat Key 22mm/0.87”	Bent Key 13mm/0.51”	Flat Key 13mm/0.51”	Shock absorbing bent key	Shock absorbing flat key	Adjustable joint key



Accessories for Pull Wire Limit Switches



OCC 8	MOR 05	RED 05	FUN 05
Stay bolt	Rope Clamp	Rope Eye	Rope 5mm x 100m 0.20” x 328.08ft

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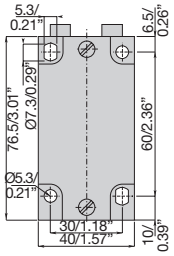
Sensoren

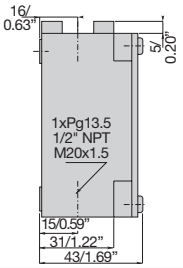
Limit Switches - Safety Type (PS31S/R) Metal Body IP66

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

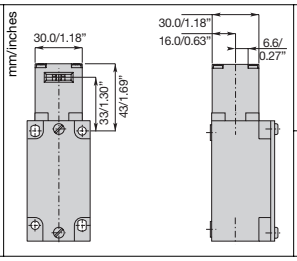




▲ Contact block (Zb type)

S11 (1NO+1NC) Snap action	**T11** (1NO+1NC) Non overlapping Slow action	**O11** (1NO+1NC) Overlapping Slow action	**T02** (2NC) Slow Action
S02 (2NC) Snap action	**T12** (1NO+2NC) Non overlapping Slow action	**T21** (2NO+1NC) Non overlapping Slow action	**T03** (3NC) Simultanous Slow action

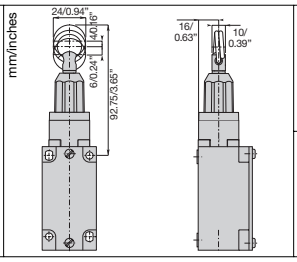




S11	T11	O11	T02
S02	T12	T21	T03

Conformity /⊖ (NC)	EN 50041 /⊖	**Key operated 90° adjustable head**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS31S-● ▲05-Y00**
Min. force or torque	30N / 45Nm		
Weight	210.0g / 7.408oz		

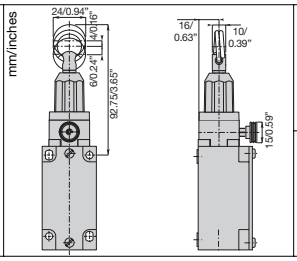




S11	T11	O11	T02
S02	T12	T21	T03

Conformity /⊖ (NC)	EN 50041 /⊖	**Pull wire without reset for simple stop**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS31R-● ▲N7-Y00**
Min. force or torque	16m/52.49ft ÷ 25m/82.02ft		
Weight	268.0g / 9.453oz		



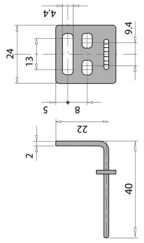


S11	T11	O11	T02
S02	T12	T21	T03

Conformity /⊖ (NC)	EN 50041 /⊖	**Pull wire with reset for emergency stop**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS31R-● ▲N7-YK0**
Min. force or torque	16m/52.49ft ÷ 25m/82.02ft		
Weight	270.0g / 9.524oz		

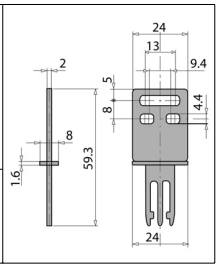
Operating Key





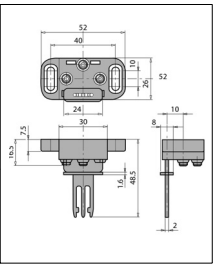
K35
Bent Key
13mm/0.51"





K36
Flat Key
13mm/0.51"





K39
Adjustable Joint Key

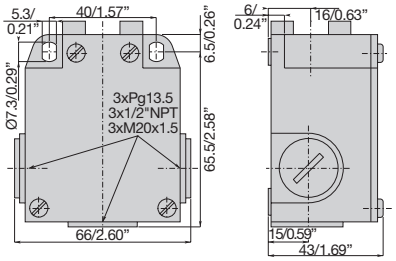
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Sensoren

Limit Switches - Safety Type (PS43S/R)
Metal Body IP66

CARLO GAVAZZI

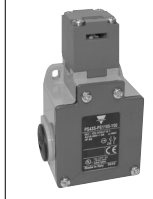
● Cable Gland

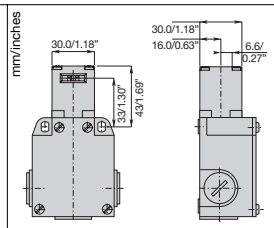
P = one cable inlet PG13.5 cable gland
M = one cable inlet M20x1.5 cable gland
N = one cable inlet 1/2" NPT cable gland



▲ Contact block (Zb type)

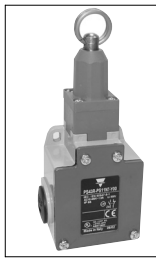
S11 (1NO+1NC) Snap action	**T11** (1NO+1NC) Non overlapping Slow action	**O11** (1NO+1NC) Overlapping Slow action	**T02** (2NC) Slow Action
S02 (2NC) Snap action	**T12** (1NO+2NC) Non overlapping Slow action	**T21** (2NO+1NC) Non overlapping Slow action	**T03** (3NC) Simultanous Slow action

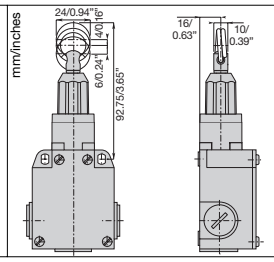




S11 | T11 | O11 | T02
S02 | T12 | T21 | T03

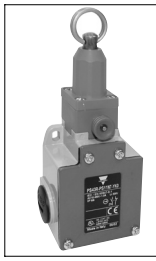
Conformity /⊖ (NC)	EN 50041 /⊖	**Key operated 90° adjustable head**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS43S-● ▲05-Y00**
Min. force or torque	14N / 40Nm		
Weight	227.0g / 8.007oz		

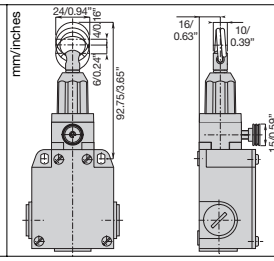




S11 | T11 | O11 | T02
S02 | T12 | T21 | T03

Conformity /⊖ (NC)	EN 50041 /⊖	**Pull wire without reset for simple stop**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS43R-● ▲N7-Y00**
Min. force or torque	16m/52.49ft ÷ 25m/82.02ft		
Weight	270.0g / 9.524oz		



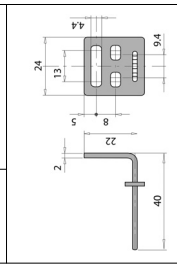


S11 | T11 | O11 | T02
S02 | T12 | T21 | T03

Conformity /⊖ (NC)	EN 50041 /⊖	**Pull wire with reset for emergency stop**	
Max. Actuation speed	0.5m/s / 1.64ft/s	**Code**	**PS43R-● ▲N7-YK0**
Min. force or torque	16m/52.49ft ÷ 25m/82.02ft		
Weight	274.0g / 9.665oz		

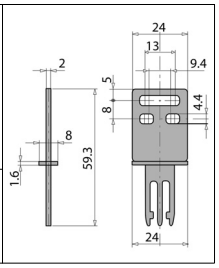
Operating Key





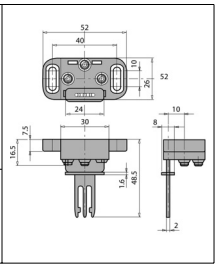
K35
Bent Key
13mm/0.51"





K36
Flat Key
13mm/0.51"



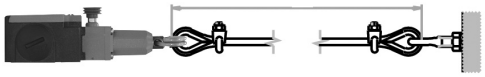


K39
Adjustable Joint
Key

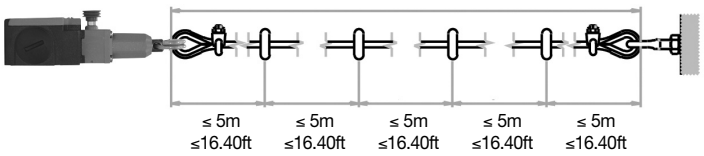
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Utilization precautions

Maximum lenght application of pullwire head

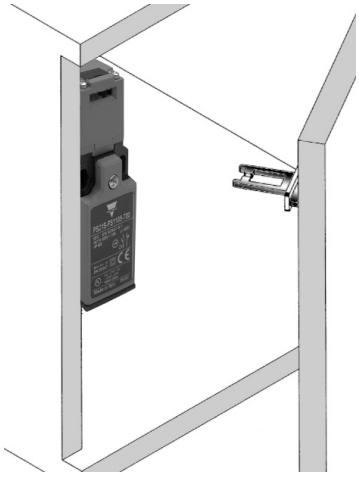


PS21, PS42: 6m/19.70ft max.
PS31, PS43: 16m/52.49ft max.

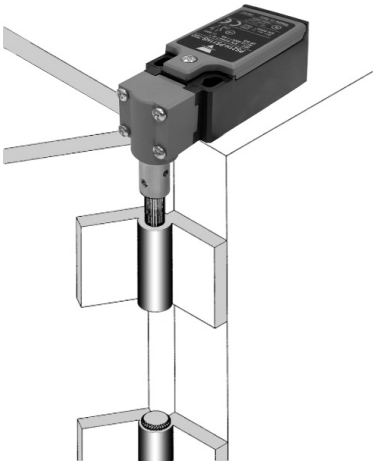


PS21, PS42: 15m/49.21ft max.
PS31, PS43: 25m/82.02ft max.

Example of applications



Key actuator type



Head for hinge (by pin)



Head for hinge (by shaft)

Adjustment

5 way key actuator head



Accessories for Pull Wire Limit Switches

			
OCC 8 Stay bolt	**MOR 05** Rope Clamp	**RED 05** Rope Eye	**FUN 05** Rope 5mmx100m 0.20” x 328.08ft

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