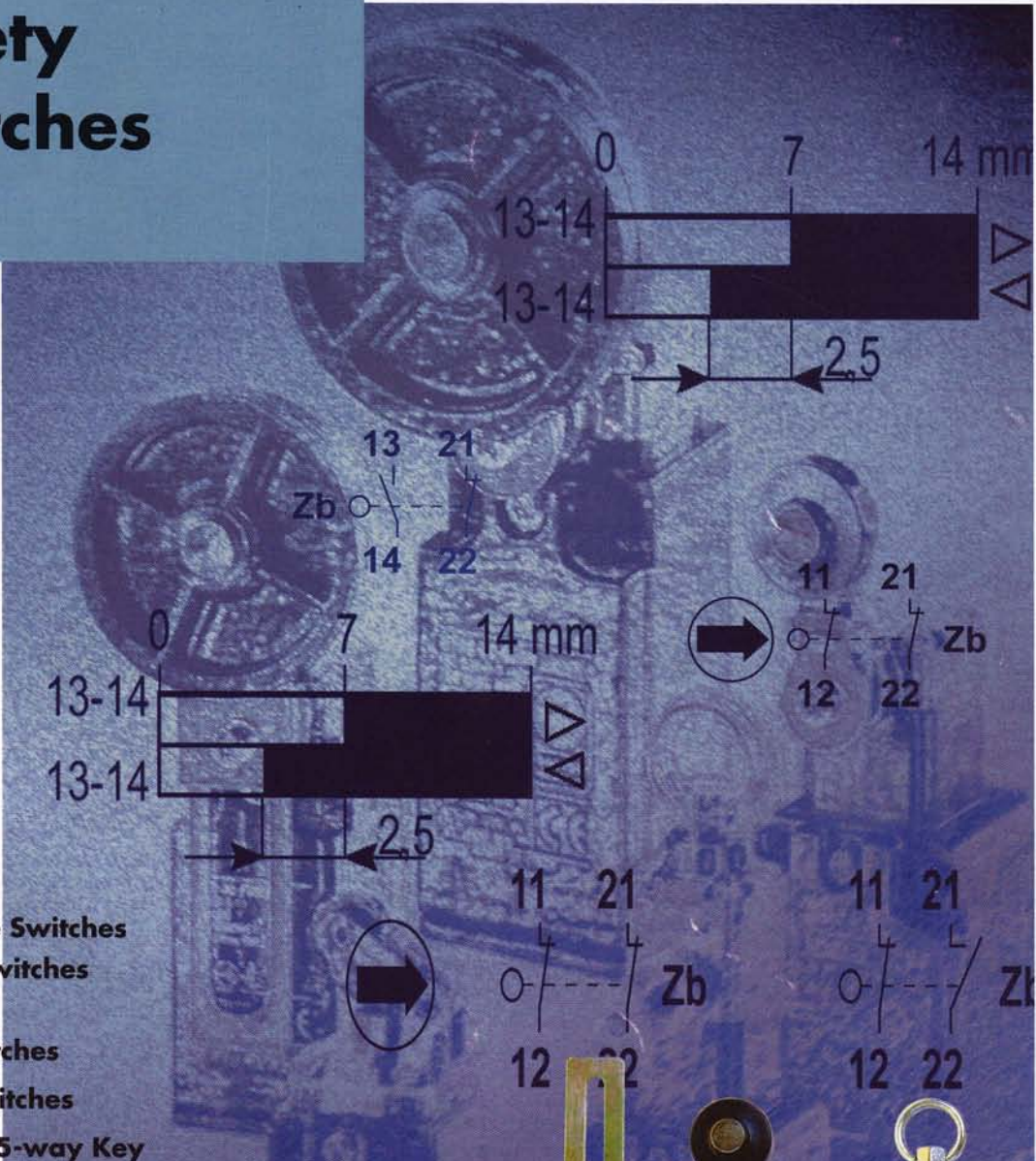




Position & Safety switches



- General purpose Switches
- Limit & Safety Switches
- Reset Switches
- Safety Gate Switches
- Safety Hinge Switches
- Safety Switches 5-way Key
- Rope Switches



Safety Switches Limit switches



Introduction to the Limit and Safety Switches

Carlo Gavazzis widens its range of products tailored for the Industrial Automation world, like

Sensors

- Inductive Sensors
- Capacitive Sensors
- Photoelectric sensors
- Level Sensors
- Magnetic Switches
- Hall and Ultrasonic Sensors

Safety Systems

- Coded Magnetic Switches
- Safety Modules
- Safety Mats
- Safety Light Curtains

Controls

- Timers
- Transducers
- Monitoring Relays
- Digital Panel Meters
- Energy Management Modules

Solid State Switching

- Solid State Relays
- Motor Controllers

with its new and complete range of Mechanical Switches:

- Limit Switches
- Safety Switches

and provides the machine manufacturers and panel builders with a global and exhaustive solution to their systems, without compromises or restrictions to the more and more demanding requirements. Safety Switches allow Machinery to operate properly and minimize process stops and personnel risk, satisfying all safety categories, from 1 to 4.

Over 1600 different types of Limit and Safety Switches for Industrial Automation as well as for Elevator and Door Application requirements allow a reliable and safe operation of machinery and personnel. More than 22 different contact units are available, most of them with positive opening safety contacts, acc. to IEC60947-5-1, coupled with over 34 different actuating head types, for a huge variety of systems:

- 5 different housing sizes LS21, LS42, LS43 small, LS31, and LS43 big allowing 1-3 cable entries and up to 4 different contact functions, in compliance with EN50041 or EN50047, for the utmost flexibility required by the system design.

- 2 additional miniature housings, LS21M and LS31M, where space saving and rapid wiring are decisive factors.

Limit and Safety Switches, classified by application, allow an easier selection of the right switch

General Purpose Switches (**L**),
Door/Gate Switches (**G**),
Safety Hinge Switches (**H**),
Safety Reset Knob Switches (**K**),
Safety Pull-Wire Switches (**R**),
Safety Switches with Separate Actuators with (**E**) and without (**S**), electro-magnetic Interlock Systems
Miniature Pre-wired Switches (**M**)

Each specific family integrates Carlo Gavazzi's well known offer for Sensors and Safety allowing the most demanding technicians to find a reliable system solution from a unique manufacturer.

All switches, except Pre-Wired types, are available in the ordinary **Pg13,5** cable entry, but can be delivered in the **NPT** or the new Metric **M20** version as well.

Contact units can be easily wired and guarantee an IP20 protection degree, while the cover provided with gasket guarantees an overall IP66 protection rating, once the wiring has been completed.



Oposing requirements of space saving, robustness, rapid connection, and higher protection degree, which are not possible with classic big and bulky housings, can easily be met by the Miniature Pre-Wired switches family, which offers cable, M12 or AMP Superseal™ connector along with IP67.



All switch housings as well as all actuating heads are available not only in Thermoplastic (double insulation) but in Metal housing as well along with a wide temperature range, -35 to + 85°C, enable harsh-duty applications, where robustness cannot be a compromise, without involving more space.

5-way Safety switches, with 90° steps adjustable heads, with and without interlock device and separate actuators, allow linear or radial operation and a small pivot radius, adjustable up to **50 mm**, for the most demanding installations.



An extraction force up to **1800 N**, when the key is locked, is offered by the LS43E switch.

LS43E safety switches satisfy all relevant safety standards, like EN292, EN294, EN60204, EN1088, and EN945-1.

Signal Towers

To indicate status of a machine and systems

Carlo Gavazzi offers a range of signal towers with a diameter of 35 mm and 50 mm with 6 different colours which can be combined with continuous-beam, blinking-light, or flashing-light. In addition it is possible to mount an acoustic module. Please ask for separate catalogue.



Safety Switches Limit switches



General technical data

Operating speed	1...1500 mm/s (5...500 mm/s for key and hinge switches)	
Operating frequency	30 Operations/min.	
Insulation resistance	100 M Ω /500 VDC	
Dielectric strength	50/60 Hz for 1"/2500 VAC	
Rated insulation voltage U _i IEC947-5-1	500 VAC	
Rated thermal current I _{the} IEC947-5-1	10 A	
Rated operating current IEC947-5-1/EN60947-5-1	Series M	Series E, G, H, K, L, R, and S
Category AC15 A300	le 6 A/24 VAC 5 A/125 VAC 3 A/230 VAC 1.8 A/400 VAC 1.4 A/500 VAC	10 A/24 VAC 10 A/125 VAC 6 A/230 VAC 4 A/400 VAC 3 A/500 VAC
Category DC13 Q300	le 3 A/24 VDC 1.5 A/48 VDC 0.55 A/120 VDC 0.27 A/250 VDC	10 A/24 VDC 4 A/48 VDC 1 A/120 VDC 0.4 A/250 VDC
Contact resistance Without cable IEC255-7 cat.3	Initial value 25 m Ω	
Short circuit protective devices IEC269 (IEC947-5-1)	Series M: 6 A gl or gG type fuse Others: 10 A gl or gG type fuse	
Rated conditional short circuit current IEC947-5-1	Series G and L: 1000 A Others: 100 A	
Pollution degree IEC947-5-1	3	
Protection degree EN 60529	Series M: IP 67 Others: IP 66	
Protection - electric shock plastic metal	class II class I	
Vibration resistance IEC68-2-6	0.35 mm \pm 15% (10-55 Hz \pm 1 Hz)	
Shock resistance IEC68-2-27	30 g/11 ms	
Mechanical life Series E, H, K, R, and S Series M: Series G and L	Min. 1,000,000 cycles 10,000,000 cycles 15,000,000 cycles	
Electrical life at 250 VAC 3 A w/resistant load $\cos\phi = 1$ at 250 VAC 3 A w/resistant load $\cos\phi = 0.4$	500,000/min. cycles 500,000/min. cycles	
Distance between contacts snap action types slow action types	2 x 2 mm 2 x 1.25 mm	

Series E, G, H, K, L, R, and S Terminals

Screw
Protection degree
Material

Max. screw tightening torque
Max. connecting capacity
rigid cable
flexible cable
With prod terminal
Terminal numbering

Series M - Cable

Standard series/cable

Model V4 o 5F - 4 o
Sheet colour
Length
Translation speed
Operation temperature
Operation voltage

PVC - UL/CSA cable

Model 4 o
Sheet colour
Length **
Translation speed
Operation temperature
Operation voltage

PUR - UL/CSA cable

Model 4 o
Sheet colour
Length **
Translation speed
Operation temperature
Operation voltage

Cable colours

Brown-blue (NO)
Black-black (NC)
Yellow-green (GND)

Connector

Screw type with combined notch and retractable plate (notch Ph, size 1)
M 3,5
IP 20 A
Steel class 8.8/galvanised iridescent yellow 6-8 μ
120 N cm (12,24) (kg cm)
2 x 1.5 mm²
2 x 1.5 mm²
1 x 1.5 mm²
In accordance w/EN50013

5 x 0.75 mm² (19 AWG)
RAL 7035/grey
2 m
60 m/min.
-10 to +80°C
300/500 V

5 x 0.75 mm² (19 AWG)
RAL 7001/grey
2 m
60 m/min.
-10 to +80°C
300/500 V

5 x 0.75 mm²
Black
2 m
180 m/min.
-10 to +80°C
600 V

4-pole M12 x 1
brass/male
4-pole AMP
superseal 1.5 male

* Between terminals of the same polarity
Between terminals of different polarity
Between live mechanical parts and ground
Between live mechanical parts and non-current-carrying metal parts

** On request, cable length more than 2 m
All cables resistant to flame and cutting oils.
CEI 20-22 cable does not spread fire.

Conditions of use

Air ambient temperature

operational

-35 to +85°C
(without formation of ice)

Relative humidity







operational

95% max.



- **Type L** - General Purpose Switches
- **Type M** - Limit & Safety Switches
Miniature/Pre-wired or Connector
- **Type K** - Reset Switches
- **Type G** - Safety Gate Switches

	Type L LS21 Model	Type L LS42 Model	Type L LS43 Model	Type L LS31 Model	Type M LS31M Model	Type M LS21M Model
Dimensions						
W x H x D (mm) (basic actuating head P0)						
Mounting Holes Distance (mm)	20/22	20/22-40/42	40	30	25	20
Cable Entries (1, 2, or 3)	1	2	3	1	1	1
Application (0)						
- General Purpose (L)	L	L	L	L	-	-
- Gate (G)	-	-	-	-	-	-
- Hinge (H)	-	-	-	-	-	-
- Rope (R)	-	-	-	-	-	-
- Safety (S)	-	-	-	-	-	-
- Safety Electromagnetic (E)	-	-	-	-	-	-
- Reset (K)	-	-	-	-	M	M
Conduit / Connection Type (1)						
- PG 13.5 (P)	P	P	P	P	-	-
- M20 (M)	M	M	M	M	-	-
- NPT _ (N)	N	N	N	N	-	-
- Cable (PVC) (C) •	-	-	-	-	C	C
- M12 Connector (1) •	-	-	-	-	1	1
- AMP Connector (A) •	-	-	-	-	A	A
Contact Unit Type (2)						
- S22 snap action 2NO+2NC	S22	-	S22	S22	-	-
- S11 snap action 1NO+1NC	S11	S11	S11	S11	-	-
- T11 slide action 1NO+1NC	T11	T11	T11	T11	-	-
- O11 overlapping slide action 1NO+1NC	O11	O11	O11	O11	-	-
- T20 slide action 2NO	T20	T20	T20	T20	-	-
- T02 slide action 2NC	T02	T02	T02	T02	-	-
- S02 snap action 2NC	S02	S02	S02	S02	-	-
- T11 overlapping slide action 1NO+1NC	-	-	-	-	-	-
- T13 slide action 1NO+3NC	-	-	-	T13	-	-
- TD2 slide action 2NO+2NO	-	-	-	TD2	-	-
- T11 slide action 1NO+1NC	-	-	-	-	-	-
- A02 slide action 2NC	-	-	-	-	-	-
- A0Z slide action 2NC	-	-	-	-	-	-
- S11 snap action 1NO+1NC	-	-	-	-	-	-
- S11 snap action 1NO+1NC	-	-	-	-	-	-
- S02 snap action 2NC	-	-	-	-	-	-
- S0Z snap action 2NC	-	-	-	-	-	-
S11 snap action 1NO+1NC	-	-	-	-	S11	S11
T11 slide action 1NO+1NC	-	-	-	-	T11	T11
Actuating Head Type (3)						
- 5-way Key (05 / 15 / 25 / D5)	-	-	-	-	-	-
- Hinge Lever (HL Left / HC Central / HR Right)	-	-	-	-	-	-
- Hinge Pin (H4 10/150- H1 10/50 - H0 12/24 - H3 8/114 - H2 8/63)	-	-	-	-	-	-
- Lever 0 Adj Roller (RT)	RT	RT	RT	RT	RT	RT
- Lever 1 Adj Roller (R1)	R1	R1	R1	R1	-	-
- Lever Roller 50 - 0Adj (W0) /1Adj (W1) /2Adj (W2)	W0, W1, W2	W0, W1, W2	W0, W1	W0, W1, W2	-	-
- Lever Bonded Roller 50 (B5)	B5	B5	B5	B5	-	-
- Lever Bonded Roller (B0)	B0	B0	B0	B0	-	-
- Lever Bonded Roller Reverse (BR)	-	-	BR	-	-	-
- Lever Reversible Adj Roller (LR)	LR	LR	LR	LR	-	-
- Lever Ceramic Reel (LC)	LC	LC	LC	LC	-	-
- Lever Aluminium Rod (LA) / Fibre Glass Rod (LG)	LA, LG	LA, LG	LA, LG	LA, LG	-	-
- Lever Offset Roller Hor. (RH w/o / RJ with Gasket)	RH, RJ	RH, RJ	RH, RJ	RH, RJ	-	-
- Lever Offset Roller Ver. (RV w/o / RW with Gasket)	RV, RW	RV, RW	RV, RW	RV, RW	-	-
- Lever Spring Rod (LS w/o / LP with Plastic End, LW Wire)	LP, LS, LW	LP, LS, LW	LP, LS, LW	LP, LS, LW	-	-
- Plunger Rounded (P0 w/o / PH with Gasket)	P0, PH	P0, PH	P0, PH	P0, PH	-	-
- Plunger Roller (PR)	PR	PR	PR	PR	P0, PH	P0, PH
- Plunger Roller 90° (P9)	-	-	-	-	PR	PR
- Rope 0N (N6) / 50N (N7) / 250N (N8)	-	-	-	-	P9	P9
-	-	-	-	-	-	-
Material (Housing/Head) (4)						
- Thermoplastic/Metal (H)	H	H	-	H	-	H
- Metal/Metal (M)	M	M	M	M	M	M
- Thermoplastic/Thermoplastic (T)	T	-	-	-	-	-
Electromagnetic Locking (5) (only Type E) or Reset Knob (only Type R, K)						
- E Type: Locking Mech. w/o Key (0), with Key (L), Electrical (U)	-	-	-	-	-	-
- K, R Types: (K)	-	-	-	-	-	-
Panel Mount Version (5) (only for Type M)						
- Not available for Actuating Head Type RT						
Protection Degree	IP66	IP66	IP66	IP66	L IP67	L IP67
Definition: Model-Code0-Code1-Code2-Code3-Code4-Code5	LS21L-PS11RT-H00	LS42L-PT11B0-H00	LS43L-P011RW-M00	LS31L-PT13LG-M00	LS31M-CS11RT-M00	LS21M-T11P0-H00

Type K LS21 Model	Type K LS42 Model	Type G LS21 Model	Type G LS42 Model	Type G LS43 Model	Type G LS31 Model
					
20/22 1	20/22-40/42 2	20/22 1	20/22-40/42 2	40 3	30 1
-	-	-	-	-	-
-	-	G	G	G	G
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
K	K	-	-	-	-
P	P	P	P	P	P
M	M	M	M	M	M
N	N	N	N	N	N
-	-	-	-	-	-
-	-	-	-	-	-
S11	-	-	-	-	-
T11	T11	-	-	-	-
-	-	-	-	-	-
T02	T02	-	-	-	-
-	-	-	-	-	-
-	-	TII	TII	TII	TII
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
RT	RT	RT	RT	RT	RT
R1	-	R1	-	-	-
W0, W1, W2	-	-	-	-	-
B0	B0	B0	B0	B0	B0
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
RH	RH	-	-	-	-
RV	-	-	-	-	-
P0	P0	-	-	-	-
PR	PR	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
H	H	H	H	-	H
M	M	M	M	M	M
-	-	T	-	-	-
-	-	-	-	-	-
K	K	-	-	-	-
-	-	-	-	-	-
IP66	IP66	IP66	IP66	IP66	IP66
LS21K-PT11R1-HKO	LS42K-PT02PR-MKO	LS21G-PT1RT-H00	LS42G-PT1RT-H00	LS43G-PT1RT-M00	LS31G-PT11RT-H00

Actuating Heads - Direct movement



P0
Steel and plunger



PH
Steel and plunger with rubber gasket



PR
Steel roller plunger (P9: 90°)



P0..L
Steel and plunger



PH..L
Steel and plunger with rubber gasket



PR..L
Steel roller plunger (P9: 90°)



RH
Thermoplastic roller lever, side actuation



RJ
Thermoplastic roller lever with rubber gasket, side actuated



LR
Reversible, adjustable thermoplastic roller lever



RV
Lever with plastic roller, vertical actuation



RW
Lever with plastic roller and blower, vertical actuation

Actuating Heads - Angular movement



RT
Side rotary lever with plastic roller



B0
Offset side rotary lever with plastic roller



R1
Side rotary adjustable lever with plastic roller




B5
Side rotary lever with rubber roller 50 dia.



W0
Side rotary bent lever with rubber roller 50 dia.



W1/W2
Side rotary adjustable lever with rubber roller 50 dia.



LG
Side rotary adjustable plastic glass fibre 6 dia



LA
Side rotary adjustable aluminium rod 6 dia



LC
Ceramic roller lever



LS
Flexible rod



LP
Flexible rod w/plastic terminal



LW
Flexible rod w/metal terminal

Actuating Heads - Multi-directional movement















- Cable 2 m PVC (C) 5 x 0,75 mm² (for Metal Housing) 4 x 0,75 mm² (for Thermoplastic Housing)
- M12 connector (1) 5 x 0,75 mm² (for Metal Housing) 4 x 0,75 mm² (for Thermoplastic Housing)
- Connector (A) AMP 4-pole Superseal 4-pole female 4 x 0,75 mm² (for Thermoplastic Housing)

- **Type H - Safety Hinge Switches**
- **Type S - Safety Switches 5-way Key without Interlock coil**
- **Type E - Safety Switches 5-way Key with Interlock Switches**
- **Type R - Rope Switches**



	Type H LS21 Model	Type S LS21 Model	Type S LS42 Model	Type S LS43 Model	Type S LS31 Model	Type E LS43 Model
Dimensions	100					
W x H x D (mm) (basic actuating head P0)						
Mounting Holes Distance (mm)	20/22	20/22	20/22-40/42	40	30	40
Cable Entries (1, 2, or 3)	1	1	2	3	1	3
Application (0)						
- General Purpose (L)	-	-	-	-	-	-
- Gate (G)	-	-	-	-	-	-
- Hinge (H)	H	-	-	-	-	-
- Rope (R)	-	-	-	-	-	-
- Safety (S)	-	S	S	S	S	-
- Safety Electromagnetic (E)	-	-	-	-	-	E
- Reset (K)	-	-	-	-	-	-
Conduit / Connection Type (1)						
- PG 13.5 (P)	P	P	P	P	P	P
- M20 (M)	M	M	M	M	M	M
- NPT (N)	N	N	N	N	N	N
- Cable (PVC) (C) •	-	-	-	-	-	-
- M12 Connector (1) •	-	-	-	-	-	-
- AMP Connector (A) •	-	-	-	-	-	-
Contact Unit Type (2)						
000 - S22 snap action 2NO+2NC	-	-	-	-	-	-
00 - S11 snap action 1NO+1NC	-	-	-	-	-	-
01 - T11 slide action 1NO+1NC	T11	T11	T11	T11	T11	-
02 - O11 overlapping slide action 1NO+1NC	-	-	-	-	-	-
03 - T20 slide action 2NO	-	-	-	-	-	-
04 - T02 slide action 2NC	T02	T02	T02	T02	T02	-
05 - S02 snap action 2NC	-	-	-	-	-	-
07 - T11 overlapping slide action 1NO+1NC	-	-	-	-	-	-
80 - T13 slide action 1NO+3NC	-	-	-	-	T13	T13
81 - TD2 slide action 2NO+2NO	-	-	-	-	TD2	TD2
10 - T11 slide action 1NO+1NC	-	-	-	-	-	T11
40 - A02 slide action 2NC	-	-	-	-	-	A02
40S - A0Z slide action 2NC	-	-	-	-	-	A0Z
00S - S11 snap action 1NO+1NC	-	-	-	-	-	-
00S/M - S11 snap action 1NO+1NC	-	-	-	-	-	-
05S - S02 snap action 2NC	-	-	-	-	-	-
05S/M - S0Z snap action 2NC	-	-	-	-	-	-
0 - S11 snap action 1NO+1NC	-	-	-	-	-	-
1 - T11 slide action 1NO+1NC	-	-	-	-	-	-
Actuating Head Type (3) **						
- 5-way Key (05 / 15 / 25 / D5)	-	05	05	05	05	15, 25, D5
- Hinge Lever (HL Left / HC Central / HR Right)	HL, HC, HR	-	-	-	-	-
- Hinge Pin (H4 10/150- H1 10/50 - H0 12/24 - H3 8/114 - H2 8/63)	H4,H1,H0,H3,H2	-	-	-	-	-
- Lever 0 Adj Roller (RT)	-	-	-	-	-	-
- Lever 1 Adj Roller (R1)	-	-	-	-	-	-
- Lever Roller 50 - 0Adj (W0) /1Adj (W1) /2Adj (W2)	-	-	-	-	-	-
- Lever Bonded Roller 50 (B5)	-	-	-	-	-	-
- Lever Bonded Roller (B0)	-	-	-	-	-	-
- Lever Bonded Roller Reverse (BR)	-	-	-	-	-	-
- Lever Reversible Adj Roller (LR)	-	-	-	-	-	-
- Lever Ceramic Reel (LC)	-	-	-	-	-	-
- Lever Aluminium Rod (LA) / Fibre Glass Rod (LG)	-	-	-	-	-	-
- Lever Offset Roller Hor. (RH w/o / RJ with Gasket)	-	-	-	-	-	-
- Lever Offset Roller Ver. (RV w/o / RW with Gasket)	-	-	-	-	-	-
- Lever Spring Rod (LS w/o / LP with Plastic End, LW Wire)	-	-	-	-	-	-
- Plunger Rounded (P0 w/o / PH with Gasket)	-	-	-	-	-	-
- Plunger Roller (PR)	-	-	-	-	-	-
- Plunger Roller 90° (P9)	-	-	-	-	-	-
- Rope 0N (N6) / 50N (N7) / 250N (N8)	-	-	-	-	-	-
Material (Housing/Head) (4)						
- Thermoplastic/Metal (H)	H	H	H	-	H	H
- Metal/Metal (M)	-	-	M	M	M	M
- Thermoplastic/Thermoplastic (T)	T	-	-	-	-	-
Electromagnetic Locking (5) (only Type E) or Reset Knob (only Type R, K)						
- E Type: Locking Mech. w/o Key (0), with Key (L), Electrical (U)	-	-	-	-	-	0, L, U
- K, R Types: (K)	-	-	-	-	-	-
Panel Mount Version (5) (only for Type M)						
- Not available for Actuating Head Type RT						
Protection Degree	IP66	IP66	IP66	IP66	IP66	IP66
Definition: Model-Code0-Code1-Code2-Code3-Code4-Code5	LS21H-PT11HC-H00	LS21S-PT0205-H00	LS42S-PT1105-H00	LS43S-PT0205-M00	LS31S-PT1105-M00	LS43E-PT1125-H00

** Remarks: V = 24 Vdc (D5), V = 110 Vac (15), V = 230 Vac (25)

Type R LS21 Model	Type R LS42 Model	Type R LS43 Model	Type R LS31 Model	Type R LS43 Model 50N/250N	Actuators/Lever with slot for precise fixing point	
						
100	200	300	400	E00	HR Actuators for levers 90° Right operating	HL Actuators for levers 90° Central operating
20/22 1	20/22-40/42 2	40 3	30 1	40 3		
-	-	-	-	-	H0 - H4 Actuator with metal shaft : 24.5 mm, 50 mm, 150 mm, 115 mm, 63.5 mm	
R	R	R	R	R		
-	-	-	-	-		
-	-	-	-	-		
P	P	P	P	P	5-way Key - LSACC-KEY xxx-M00	
M	M	M	M	M		
N	N	N	N	N	005 Angel key with fixing perpendicular Direct mounting	205 Hinged key with screw for key angel regulation
-	-	-	-	-		
-	-	-	-	-		
-	-	-	-	-		
07	07	07	07	-		
-	-	-	-	-	305 Long straight key Linear actuating	405 Long key with fixing perpendicular Direct mounting
-	-	-	-	-		
-	-	-	-	S11		
-	-	-	-	S11		
-	-	-	-	S02		
-	-	-	-	S0Z		
-	-	-	-	-		
-	-	-	-	-		
-	-	-	-	-		
-	-	-	-	-		
N6	N6	N6	N6	N7, N8	Metal actuator tower with cable connector ring	
					N6 / N7 / N8 N6 = max. cable 6 m N7 = 50 N - max. cable 12 m N8 = 250 N - max. cable 50 m	N6_K N6 = max. cable 6 m Reset control button
H	H	-	H	-		
M	M	M	M	M		
-	-	-	-	-		
-	-	-	-	-		
K	K	K	K	K		
-	-	-	-	-		
IP66	IP66	IP66	IP66	IP66		
LS21R-PTING-MKO	LS42R-PTING-HKO	LS43R-PTING-MKO	LS31R-PTING-HOO	LS43R-PS02N7-MKO		

The Carlo Gavazzi Group



The CARLO GAVAZZI Group is an innovator in the design, manufacture, and marketing of electric and electronic equipment targeted at the global markets of industrial automation, energy and environment and information processing.

Since 1931 when the company was founded in Milan, Italy, products and services have set quality standards.

Today, CARLO GAVAZZI is divided into the two business units Automation Components and Electronic Packaging.

Mission

■ The Automation Components Business Unit is an innovator in the design, manufacture, and marketing of electronic control components for the global industrial automation markets.

Electronic Packaging



CARLO GAVAZZI is a leading supplier of system integration products serving the global information processing markets in North America.

Information

Further information on Group, products, and worldwide representation:

<http://www.carlogavazzi.com>

<http://www.dupline.com>

<http://www.smart-house.dk>

Automation Components



A dedication to automation

Automation is a fast-moving, high-tech world in which we have four core groups of products.

Each group is designed and manufactured in a centre of excellence to be sure that each individual product is the best in the field.

Through CARLO GAVAZZI, all our products are integrated with each other to provide complete solutions.



Sense

Inductive and Capacitive Proximity Sensors in full metal and plastic housings.
Photoelectric Sensors.
Level Sensors: Optical, Conductive, and Capacitive.
Ultrasonic Sensors and Magnetic Switches.
Limit Switches.



Switch

Solid State Relays. Versions for PCB and panel mounting.
AC Semiconductor Motor Controllers Soft starters.
Industrial and PCB Relays.



Control

Energy Management. Timers and Monitoring Relays.
Digital Panel Meters and Temperature Controllers.
Dupline® Field and Installation Bus. Building Automation Systems.



Safety

Safety and Magnetic Switches, Safety Modules.
Mat Systems, Light Curtains, Electrical Transient Protections. Measuring Systems and Encoders.

Our Sales Network

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CARLO GAVAZZI

Automation Components

