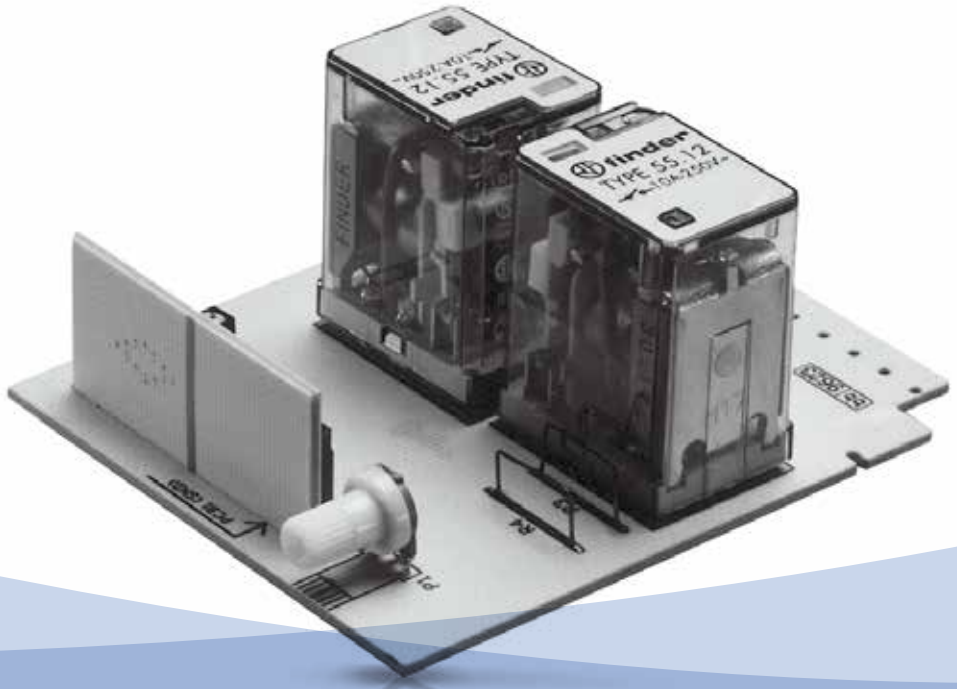
TECHLINE
IMPROVING FLEXIBILITY



CS16 - CS28 - CS32

Data sheet

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LINAK®
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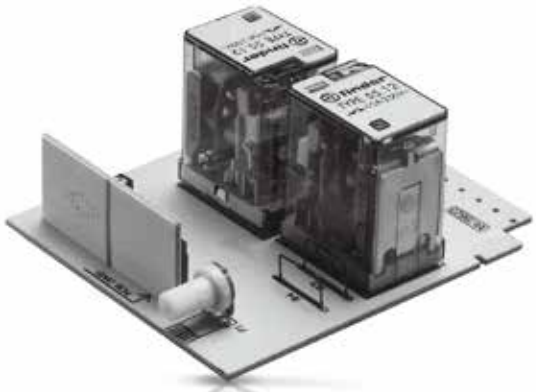
CS16 - CS28 - CS32

The CS16 electronic limit switch is connected between the LINAK® actuator and a non-LINAK power supply, where it cuts out the current to the actuator in end position or if an obstacle is encountered. The PCB contains a variable current limit setting and is available in different versions, depending on which actuator it is to be used with.

The CS16 is an important component which ensures a long life for the actuator.



Features:

- CS16 is easily installed between the LINAK linear actuator and the power supply
- It may be used in connection with many types of signal sources such as the LINAK HB41 handset
- Control current: max. 100 mA
- Available with potentiometer (for current limit setting) ensuring that the CS16 cuts out the actuator in the end positions
- Possibility of parallel connection of CS16 units. With one handset push button it is possible to control several parallel connected CS16 units. The actuators will run simultaneously.
- LA28/LA28S/LA32 LINAK can deliver a built-in limit switch respectively CS28, CS28S and CS32
- CS28/CS28S/CS32 are connected between a LINAK actutor and the power supply and are mounted in the LA28/LA28S/LA32 motor housing; the actuator can thus be directly connected to a 24V power supply
- CS28/CS28S/CS32 trip out the current to the actuator in end position (or if an obstruction is encountered - overload)
- Control current to CS28/CS28S/CS32 is max. 100mA
- Supply voltage: it is important that the supply voltage 24 V DC connection is correct, otherwise the CS-circuit may be ruined

Options:

- Possible to mount the CS16 PCB inside an aluminium box (2 versions available) together with four different connection terminals

Current specifications:

Amp.	LA12	LA22	LA28	LA28S	LA30	LA30S	LA30/LA32	LA34		
								N	F	S
2*	24V		24V	24V						
4*	12V	24V								24V
5.5#				24V			24V			
9.0*		12V		12V	24V	24V		24V	24V	
14*										
20*					12V	12V		12V		

N = Normal LA34 motor; F = Fast motor; S = Small LA34 motor
# = Cut-off current 5.5A ± 10% cannot be adjusted
* = Cut-off current can be adjusted from the nominal value to:

2 Amp.:	1.3A to 2.7A
4 Amp.:	2.3A to 5.3A
9 Amp.:	5.0A to 10.0A
14 Amp.:	7.0A to 14.0A
20 Amp.:	12.5A to 25.5A

CS16

Ordering example:

CS16 04 24 0A

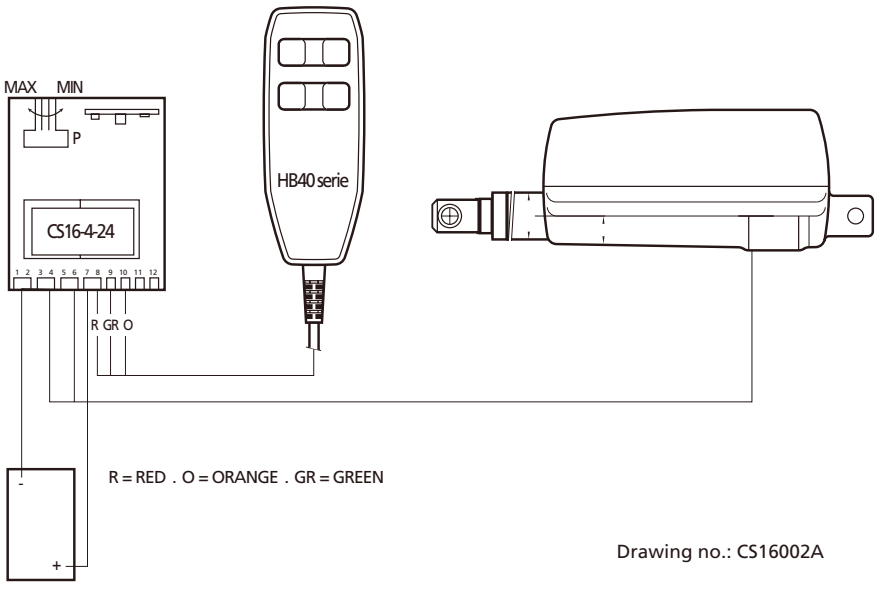
0A = Aluminium box with CS16 mounted and connected to an AMP socket (counterpart plug included)
0B = 3 x PG 9 box. Aluminium box with CS16 mounted with terminal type E
0E = PC terminal strip clips
00 = Only the printed circuit board assembly

Voltage: 24 or 12

Amps: 02 = 2 A
04 = 4 A
0L = 5.5 A
09 = 9.5 A
14 = 14 A
20 = 20 A

Type

Connections:

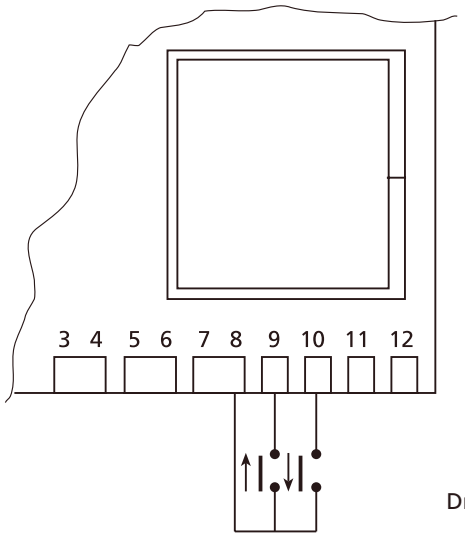


Drawing no.: CS16002A

Adjustment of CS16:

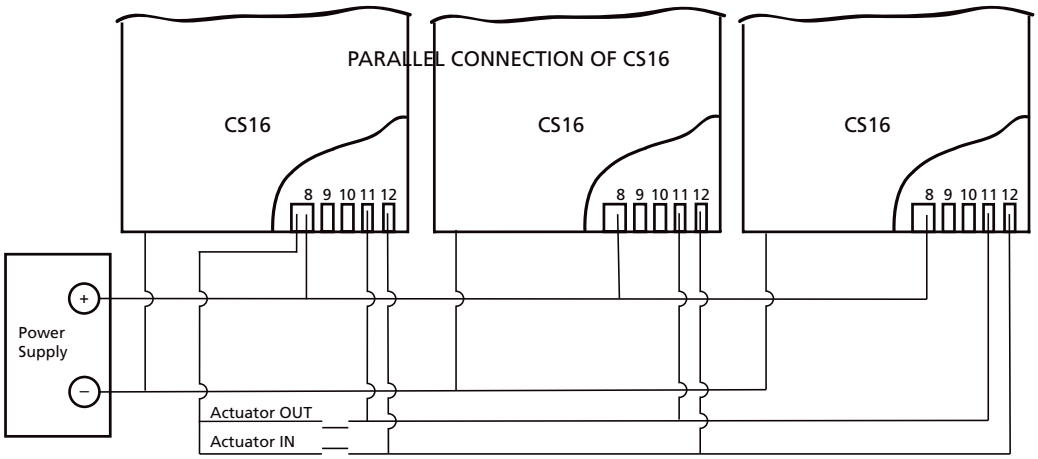
The CS16 has a rotary potentiometer for adjusting the value of the cut-off current. To obtain the correct cut-off current, connect the CS16 and turn the potentiometer as far as it will go/clockwise (seen from the potentiometer) to set the maximum cut-off current. Load the actuator with the maximum load it will be exposed to in the application. At the same time turn the potentiometer anticlockwise, reducing the cut-off current, until the actuator stops (not in end position).
Then turn the potentiometer approx. a quarter of a turn clockwise and the system is ready for use.

Connection principle for controlling one CS16:

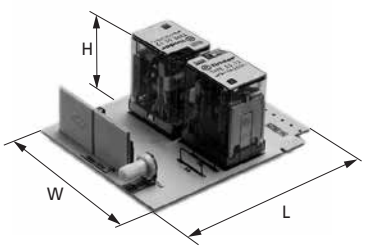


Drawing no.: CS16003A

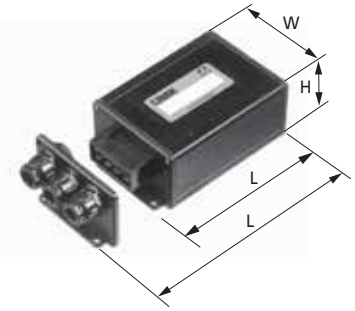
Parallel connection for simultaneous operation:



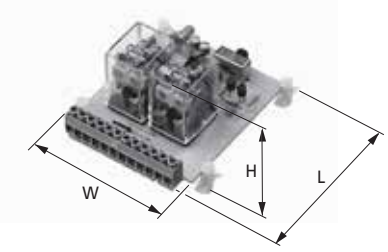
Drawing no.: CS16001A



Type 0 H = 41; L = 87; W = 70

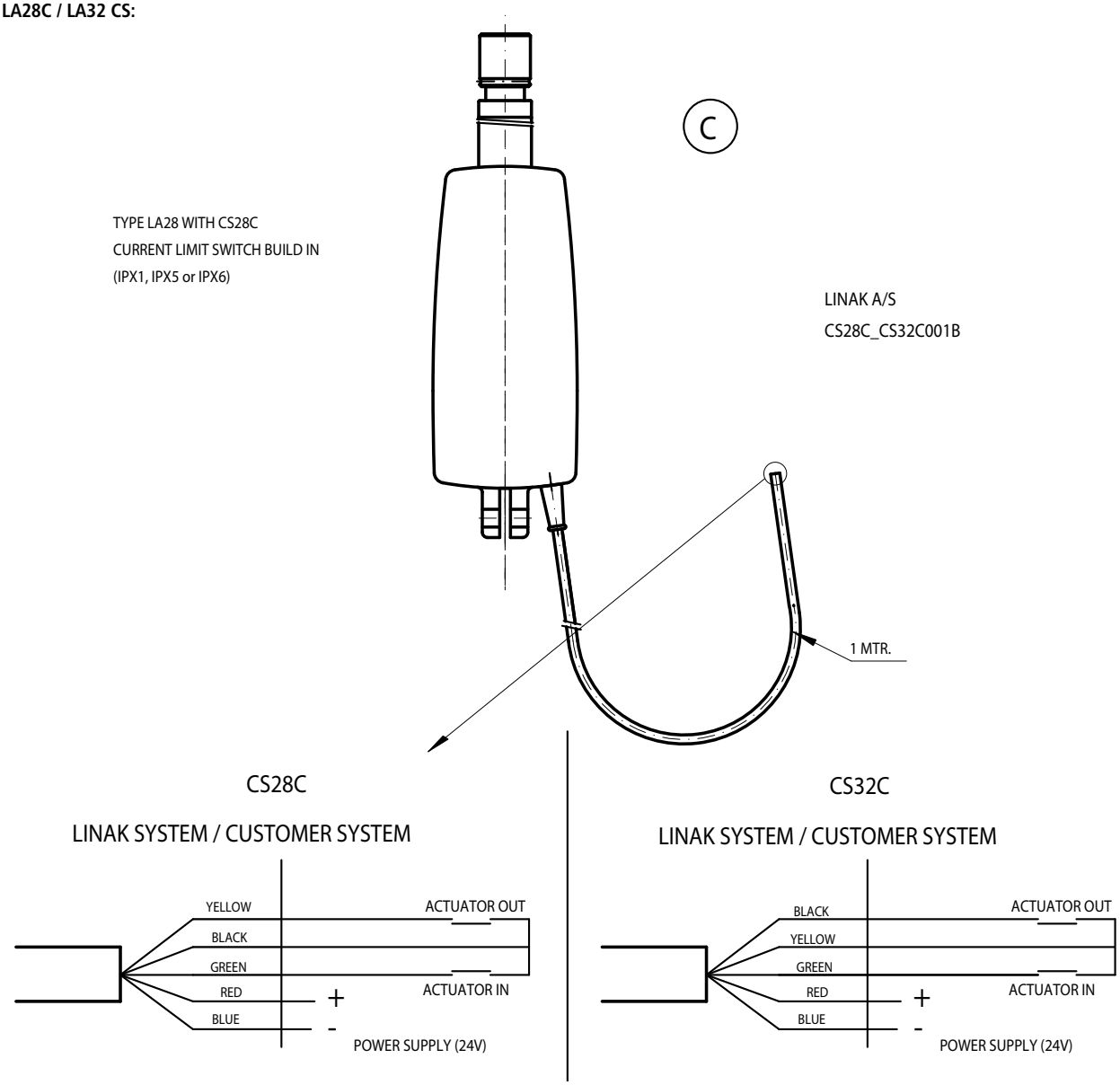


Type A H = 50; L = 131; W = 78
Type B H = 50; L = 133; W = 78



Type E H = 45 (strip clips); L = 87; W = 70

LA28C / LA32 CS:



Following different types of built-in electronic limit switches are avaivable:

A: LA28/LA28S/LA32 with built-in **CS28A/CS28SA/CS32A** is standard IPX1 (can only be IPX1).
A female telephone plug is mounted on the motor housing for connection to LINAK handset type HB41-00-04 with coiled cable suitable with telephone plug (compare drawing).

B: LA28/LA28S/LA32 with built-in **CS28B/CS28SB/CS32B** is standard IPX5, also if the actuator is ordered in IPX6.
For use together with LINAK HB-series with 8-pole DIN-plug (e.g. HB41-00-00 and HB41-00-01) (compare drawing).
The handset cable is always black.

C: LA28/LA28S/LA32 with built-in **CS28C/CS28S/CS32C**: 5-core cable from the actuator has to be connected to power supply (2 wires) and control (3 wires). The IP degree for this type always follows the actuator.

Ordering example:

CS28 A/B/C:	For actuator type LA28
CS28S A/B/C:	For actuator type LA28S
CS32 A/B/C:	For actuator type LA32

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