

CS16 - CS28 - CS32

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 actuator 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:

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



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.

Above mentioned guarantees the maintenance of the long life of the LINAK actuator. The CS16 is an important component which ensures a long life for the actuator.

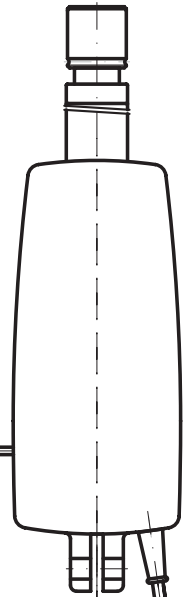
LA28 / LA32 CS:

HB41-00-04 COILED CABLE
WITH TELEPHONE PLUG

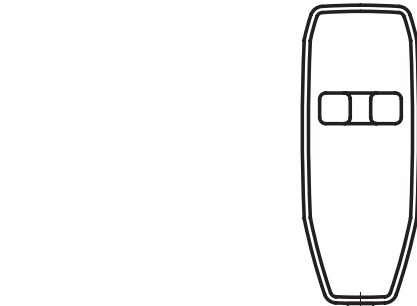


(A)

TYPE LA28 WITH CS28A
CURRENT SWITCH BUILD IN
(STANDARD IP51)

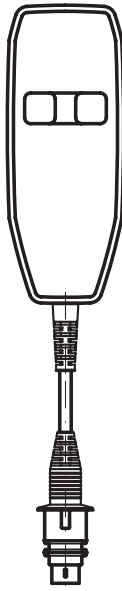


1 MTR.



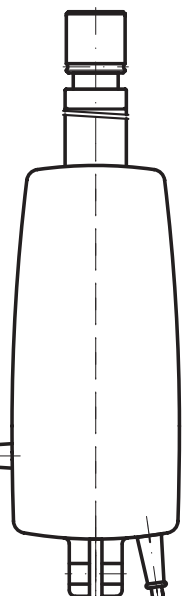
HB41-00-00 STRAIGHT CABLE
WITH 8 POL. PLUG

HB41-00-02 COILED CABLE
WITH 8 POL. PLUG



(B)

TYPE LA28 WITH CS28B
CURRENT SWITCH BUILD IN
(STANDARD IP 65)



0.1 MTR.

1 MTR.

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
- 0C** = Vertical screw terminal
- 0D** = Horizontal screw terminal
- 0E** = PC terminal strip clips
- 0F** = PC base vertical
- 00** = Only the printed circuit board assembly

Voltage

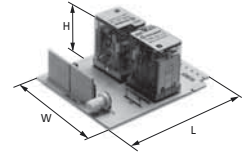
- Amps**
- 02 = 2A
 - 04 = 4A
 - 0L = 5.5A
 - 09 = 9.5A
 - 14 = 14A
 - 20 = 20A

Amp	LA12	LA22	LA28	LA28S	LA30	LA30S	LA30L/ LA32	LA34 (24V)		
								N	F	S
2**	24V		24V	24V						
4**	12V	24V								24
5.5*				24V			24V			
9.5**		12V		12V	24V	24V		24	24	
14**										
20**					12V	12V				

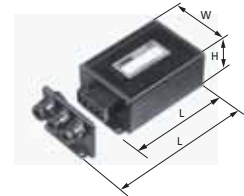
N = Normal LA34 motor; F = Fast LA34 motor; S = Small LA34 motor
 * = Cut-off current 5.5A ± 10% cannot be adjusted.
 ** = Cut-off current can be adjusted from the nominal value to:

- 2 Amp: 1A - 3,5A
- 4 Amp: 3A - 8,5A
- 9 Amp: 5A - 12,5A
- 14 Amp: 6A - 17,5A
- 20 Amp: 10A - 25,5A

Type

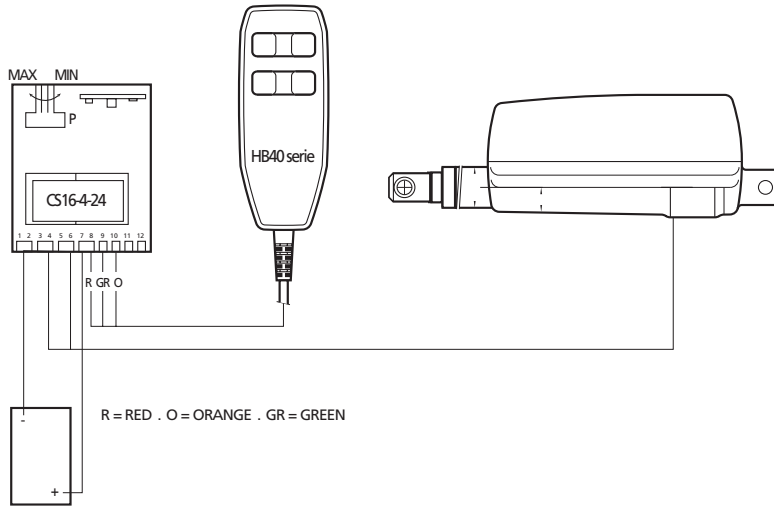


Type 0 H = 41; L = 87; W = 70

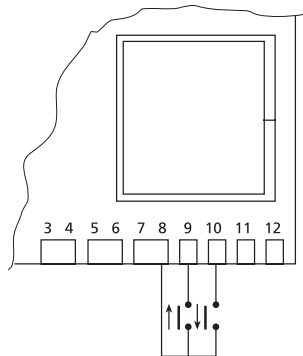


Type A H = 50; L = 131; W = 78
 Type B H = 50; L = 133; W = 78

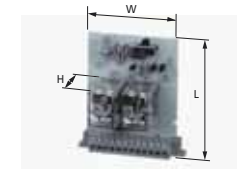
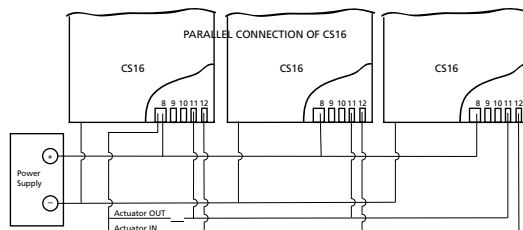
Connections:



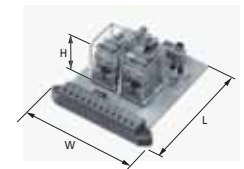
Connection principle for controlling one CS16:



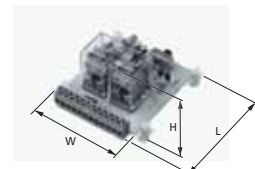
Parallel connection for simultaneous operation:



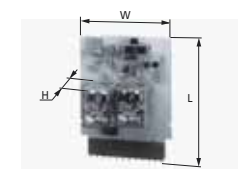
Type C H = 41; L = 90; W = 85



Type D H = 41; L = 90; W = 85

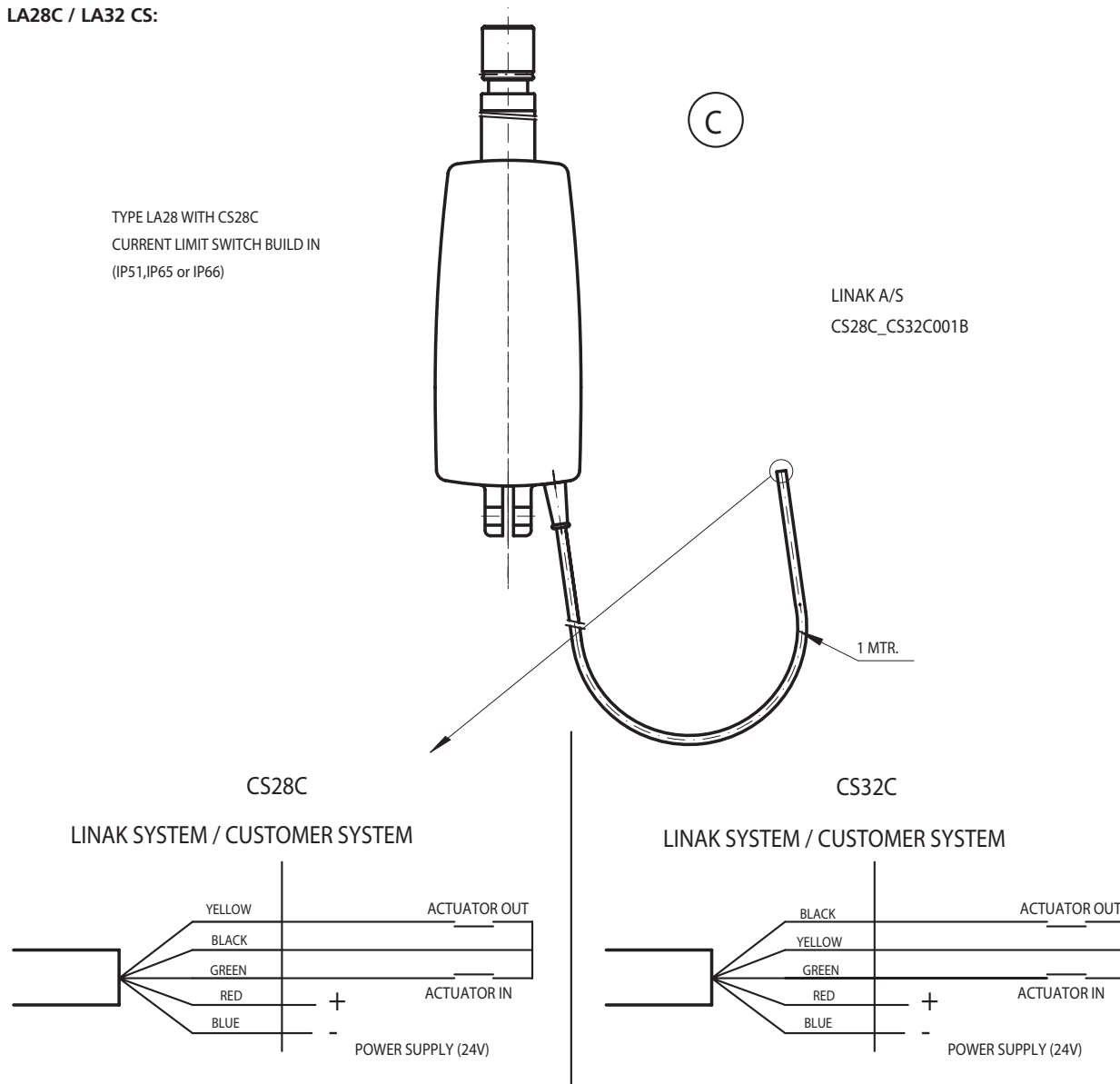


Type E H = 45 (strip clips); L = 87; W = 70



Type F H = 41; L = 93; W = 70

LA28C / LA32 CS:



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

- A: LA28/LA28S/LA32 with built-in **CS28A/CS28SA/CS32A** is standard IP 51 (can only be IP 51).
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 IP 65, also if the actuator is ordered in IP 66.
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

Specifications subject to change without prior notice.
It is the responsibility of the product user to determine the suitability of LINAK A/S products for a specific application. LINAK will at point of delivery replace/repair defective products covered by the warranty if promptly returned to the factory. No liability is assumed beyond such replacement/repair.