

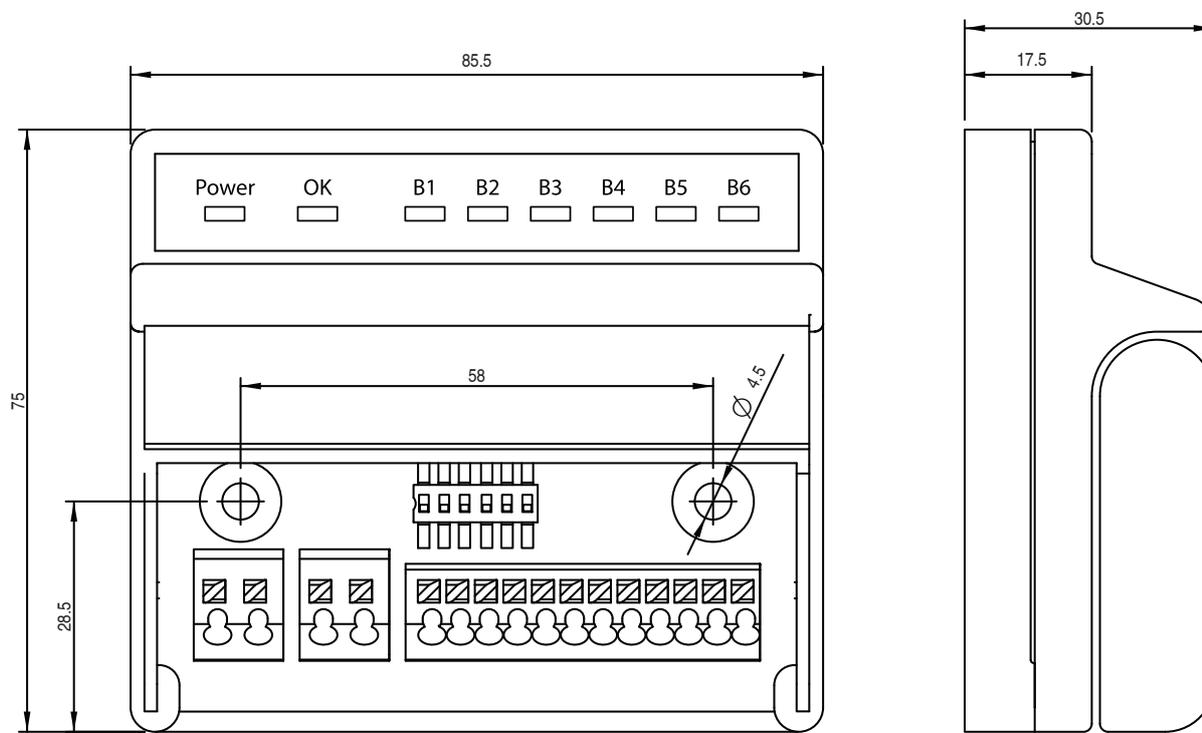
# WBD-602

## User Manual



## Main device data

### 1.1 Components and dimensions (mm)



LED's	Status	Description
Power <input type="checkbox"/>	On (GREEN)	Device with power.
	Off	Device with no power.
OK <input type="checkbox"/>	On (GREEN)	All connected and programmed belts have continuity.
	Off	One or more belts are broken and have no continuity.
B(x) <input type="checkbox"/>	On (GREEN)	Belt programmed, ON, and with continuity.
	On (RED)	Belt programmed, ON, without continuity or broken.
	Off	Programmed belt Off.

### 1.2 Electrical specifications

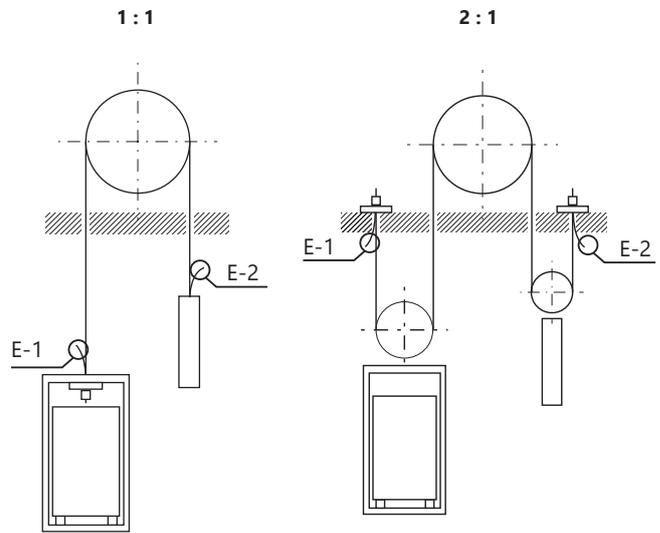
Power supply	Min.	20VDC	
	Max	28VDC	
Relay	Contact	Max. voltage	48VAC/VDC
		Max. current	3A
	Number	1	

Output B1 to B6 short-circuitable to positive or to negative.

## Step-by-step installation

**i Read before installing:**

The broken belt detection system is composed of a WBD-602 device and a series of connectors that are installed on the remaining ends of the elevators belts. For each belt of the elevator there must be two different types of connectors, to differentiate them, the one that has a connection or cable output we will call connector-A. The one that does not have outputs, connector-B. Connector-A will go at one end of the belt along with the WBD-602 and Connector-B at the opposite end. In order to save cable it is advisable to place connectors-A and the WBD-602 device at the end of the belt closest to the elevators controller. In the diagram below we will call this end E-1 and the opposite, E-2.



1

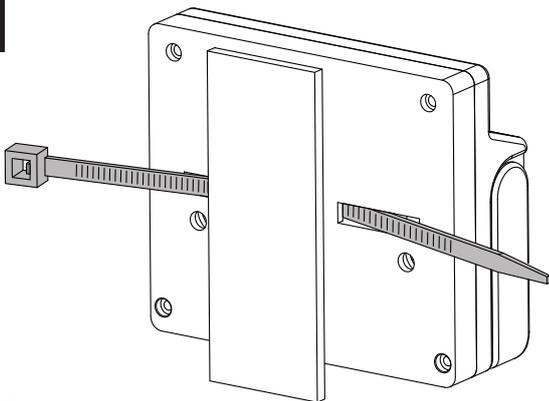


Fig.2

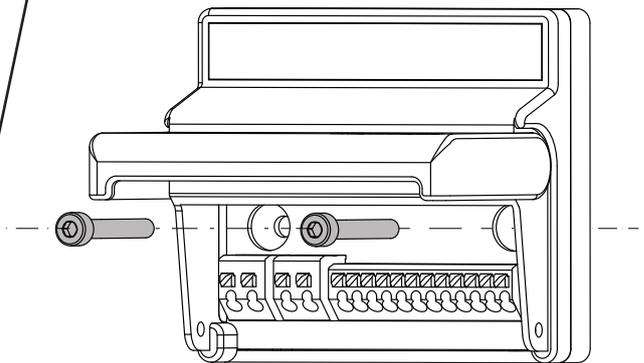


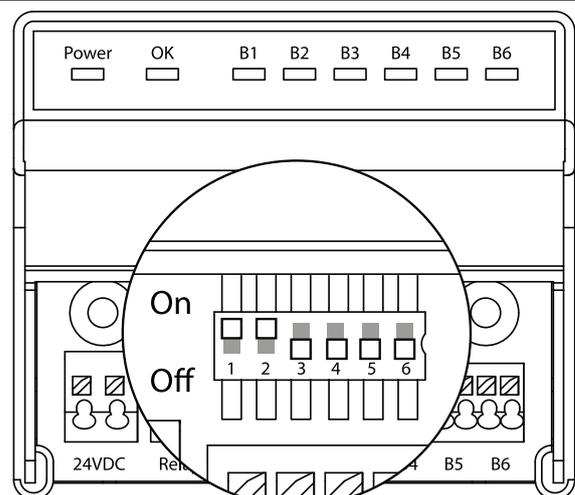
Fig.3

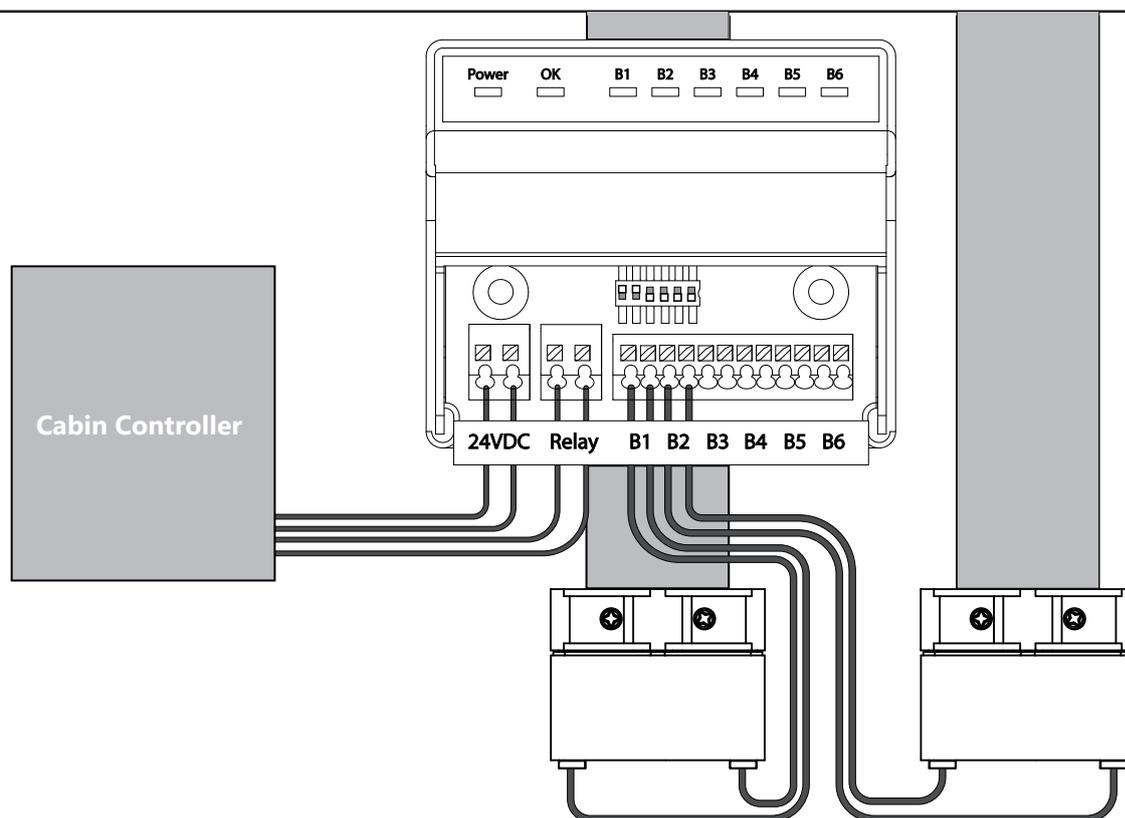
The first step is to fix the device. As shown in FIGURE-1 it is possible to fix it by means of a regular flange. It can also be fixed to a solid part of the elevator with screws as shown in FIGURE-2.

2

**Programming the number of belts:**

By lifting the devices cover, you should look for the microswitch shown in the displayed figure. This microswitch has six tabs (as many as belts) with two On and Off positions. The belts that are connected to the device must be positioned as On and the remaining Off. An example, in case of having two tapes connected to the device, tab 1 and 2 will have to be position as On and the remaining Off.





### Connections:

By lifting the devices cover, you must make the connections in the following order:

- The first step is to connect Connectors-A to the WBD-602 device, as shown in the connection scheme, following the order B1,B2,B3.... B6. A-connectors have no polarity.
- The second step is to connect the alarm relay to the control panel. You should note that the relay contact is normally closed when the system is OK and in case power is lost or a broken wire is detected the relay contact will open.
- The third step is to connect the 24VDC power supply to the device.
- To finish the installation check that the LEDs are turned on correctly (section 1.1).

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