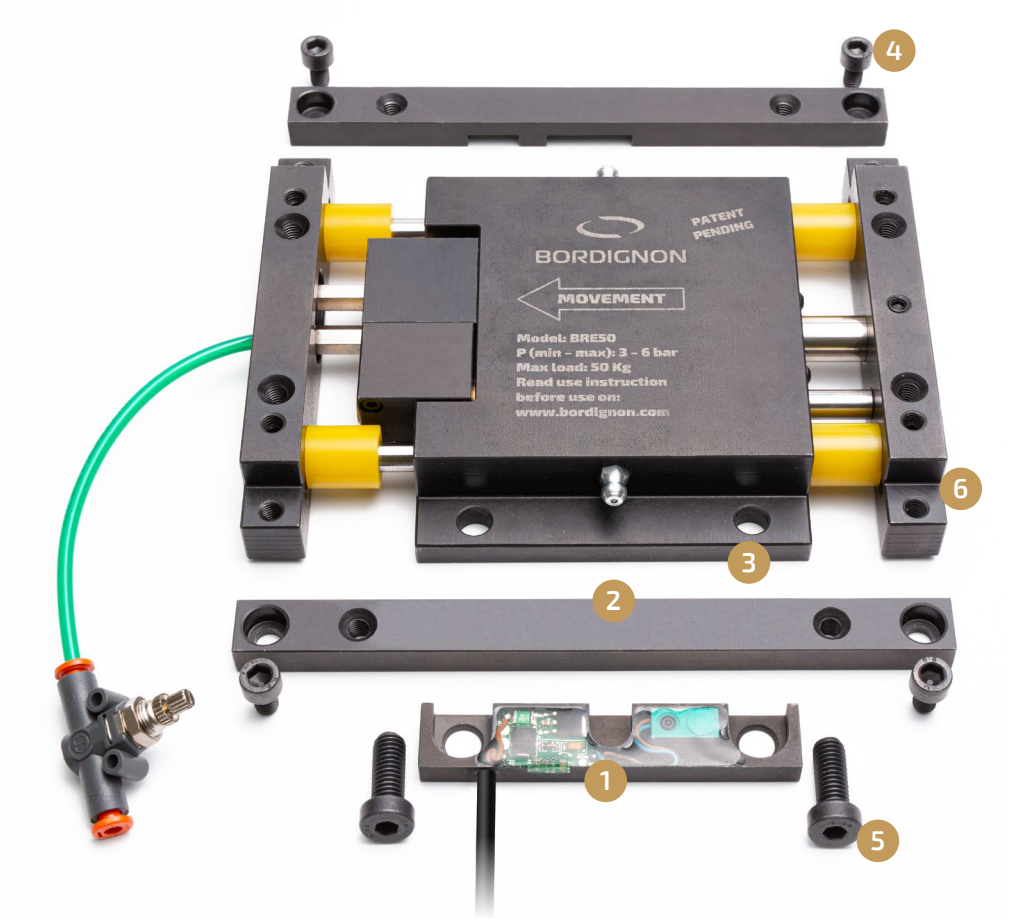
BORDIGNON



1. BRE-CD device
2. Side bars
3. Fixing holes
4. Fixing screws
5. Fixing screws
6. Fixing holes

BRE-CD user manual

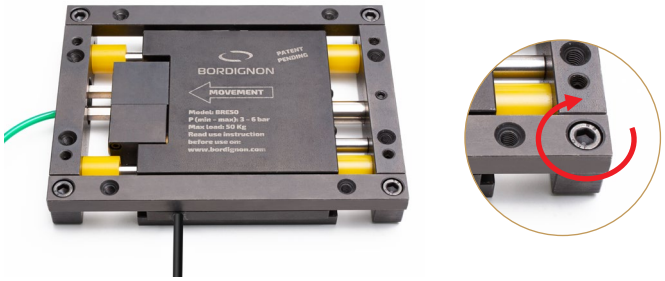
The BRE-CD (1) is a sensor which allows to detect when the scrap remover stops during the production process and to generate a signal by an alarm system connected to it. The scrap remover BRE must be provided with side bars (2) in order to install the BRE-CD device. The BRE-CD can be assembled either on right side or left side of the scrap remover.

1 - FIXING THE SENSOR

Place the BRE-CD on one side of the scrap remover matching the **fixing holes (3)** and fasten the BRE-CD to the scrap remover by the **screws (5)** supplied together with the sensor.

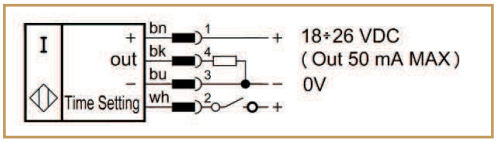
2 - POSITIONING THE SIDE BARS

Place both side bars matching **holes (6)** and fasten them by the four **fixing screws (4)** supplied together with the scrap remover.



3 - CONNECTING THE BRE-CD

Connect the BRE-CD as per the following **electric wiring.**



bn+ bu-	power 18 ÷ 26 VDC
bk+ bu-	alarm output OUT 50mA max.
bn+ wh-	time setting

4 - CHECKING AND STARTING THE SCRAP REMOVER

After connecting the sensor, green light on the side of the BRE-CD should turn on. Start the scrap remover BRE. Wait 3 seconds which is the time needed for the authomatic reset of the alarm (see "reset of the alarm output" paragraph).

Functioning

TIME SETTING

The BRE-CD device is supplied in order to give an alarm signal when the scrap remover stops for more than 0.2 sec.
Factory set time of 0.2 sec. may be increased up to maximum 2 sec. by generating electrical impulses:
The electrical impulse is made by closing the contacts of wh and bn wires (see electric diagram) for about 1 sec. and no more than 3 sec., otherwise time will be restored back to factory setting (see following paragraph).
Every single impulse corresponds to an increase of 0.1 sec.
The green light will be flashing at every electrical impulse.
I.e.: To generate an alarm when the scrap remover stops for more than 0.5 sec., three electrical impulses must be generated by closing three times the contacts of wh and bn wires for approximately 1 sec. By doing so, 0.3 sec. will be added to basic time of 0.2 sec.,reaching a total of 0.5 sec.

RESET OF TIME SETTING

To restore time back to factory settings (0.2 sec.), close contacts of wh and bn wires (see wiring diagram) for at least 3 sec.. During these 3 sec. green light on the side of the sensor will turn off. After the reset operation, green light will be flashing for 3 sec. and it will then remain turned on to show normal functioning.

RESET OF ALARM OUTPUT

After an alarm has occurred and once the problem has been solved, the alarm output is automatically reset 3 sec. after the scrap remover starts normally working.

LIGHTS ON THE BRE-CD

The BRE-CD has a green light and a red light on one side.

GREEN LIGHT	RED LIGHT
Turned on light: BRE-CD connected	**Turned on light:**: BRE-CD working. No alarm
Turned off light: BRE CD not connected	**Turned off light**: malfunctioning scrap remover. Alarm
Flashing light: for 3 sec. after reset of time setting	**Flashing light**: for 3 sec. when starting or when restarting after an alarm