

TB0421 Balluff OBEAM Sensor Information

This technical bulletin is for the Balluff BOS01FN sensor. Stuga part number is E0001139. Please see pictures below:

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Comments

Which sensor does this technical bulletin relate to?

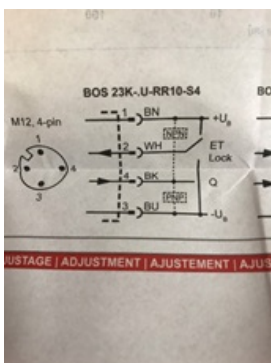
This technical bulletin is for the Balluff BOS01FN sensor. Stuga part number is E0001139. Please see picture below:

The information following on this technical bulletin cannot be related to other sensor types being used as the OBEAM sensor.



How are the connections made?

When wiring the sensor, you need to make sure that the white wire and the brown wire go into the same terminal. You can do this using terminals (Flowline and Microline) or you can do this using 3 pin plugs (machine with Beckhoff boxes).

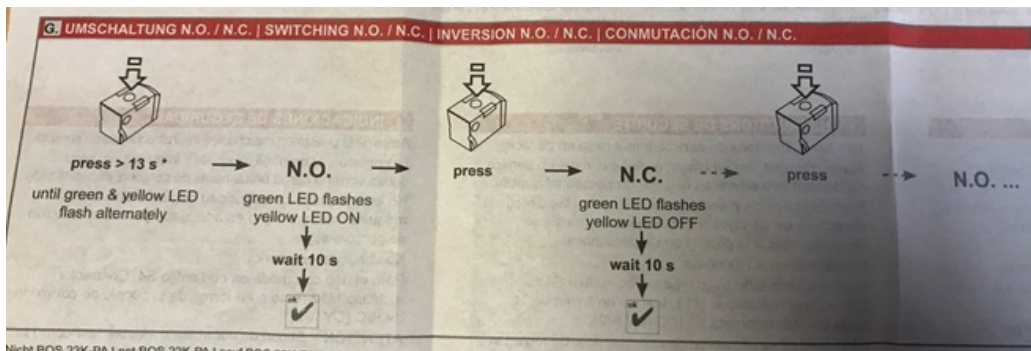


How to change polarity

The paperwork that comes with the sensor explains how to change the polarity. The important piece of information to know is that we want the sensor to be n/c. This means that when the sensor has no obstacle in front of it and it is lined up with the reflector, we want the input to be high. The sensor shows this with LED's on the top. When the sensor is set to n/c, the green and yellow LED's will be on when the sensor has no obstacle. When the sensor has an obstacle in the way, the yellow LED turns off.

When you first wire the sensors up, they are set to be n/o. This means that when the sensor is lined up and there is no obstacle, only the green LED will come on. The yellow LED will come on if there is an obstacle in the way.

To change this polarity, follow the picture below:



Notes when Replacing the old

Sick Outfeed beam sensor (Blue one).

i Additional Parts needed

Stuga part number is E0001139

You will also need additional parts.

E0001140 - New cable to plug into sensor and wire into box.

E0001059 - New bracket to hold the Sensor.

E0000279 - Always recommend a new reflector

2 x F0000180 (m4 x 30mm Cap screw)

2 x F0000045 (m4 Nut)

4 x F0000057 (m4 washer)