Quick Guide

EE8915 - CO_2 Sensor for Railway Applications

your partner in sensor technology.

PLEASE NOTE

Find this document and further product information on our website at www.epluse.com/ee8915.

Electrical Connection

WARNING

Incorrect installation, wiring or power supply may cause overheating and therefore personal injuries or damage to property.
For correct cabling of the device, always observe the presented wiring diagram for the product version used.
The manufacturer cannot be held responsible for personal injuries or damage to property as a result of incorrect handling, installation, wiring, power supply and maintenance of the device.

NOTICE

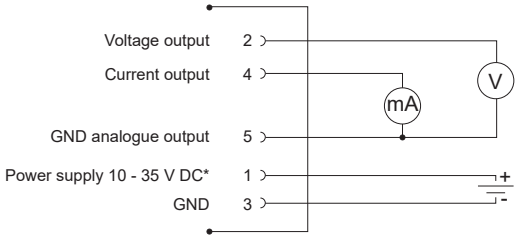
For failure-free operation and performance according to the specs, the GND supply and the GND analogue output must be wired separately.

Fix Installed Cable

Pin	Function
1	10 - 35 V DC supply
2	GND supply
3	GND analogue output
4	Current output
5	Voltage output

M12 Connector

Plug for supply and analogue output



*The supply circuit must be fused with ≤ 8A

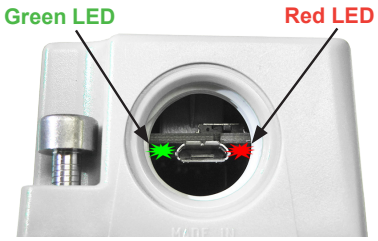
Error Indication on the Analogue Output

The EE8915 features an error indication on the analogue output according to NAMUR recommendations (factory setting: disabled). The feature can be enabled with the EE-PCS Product Configuration Software, refer to User Manual at www.epluse.com/ee8915.

Output signal	NAMUR signal level
0 - 5 V	5.5 V
0 - 10 V	11 V
0 - 20 mA	21 mA
4 - 20 mA	21 mA

Status and Error Indication via LEDs

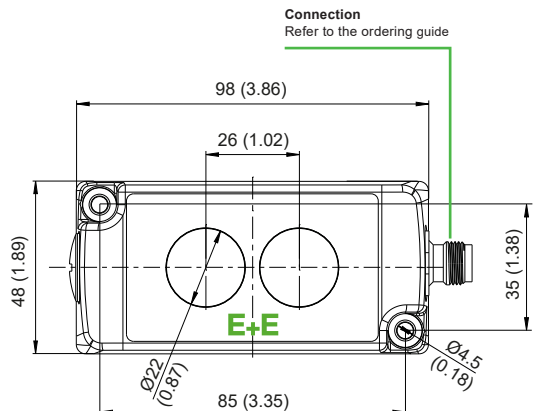
Status LEDs are located close to the USB service interface, under the access cover.



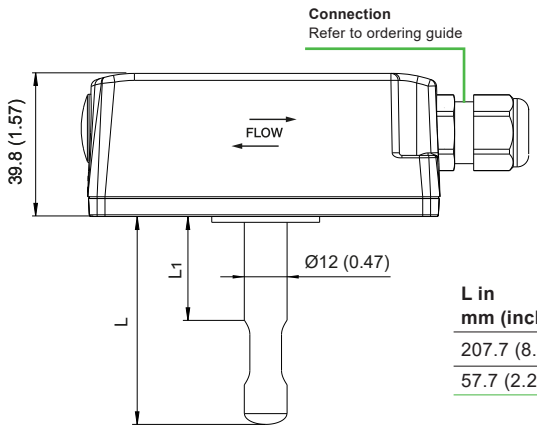
LED		Description
Green	**flashing**	Normal operation
Red	**off**	Normal operation
	permanently lit	Failure. Contact E+E after sales service.
	flashes	Failure. Also indicated on the analogue output (NAMUR indication enabled). The failure might be temporary, caused for instance by overheating. If the flashing persists, contact E+E after sales service.

Dimensions

Wall mount (T1)

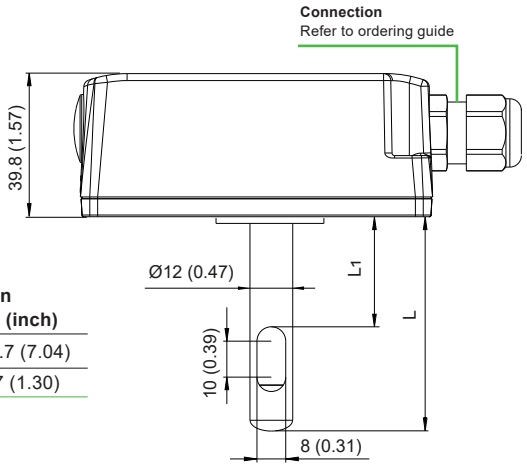


Duct mount (T2)



L in mm (inch)	L1 in mm (inch)
207.7 (8.18)	178.7 (7.04)
57.7 (2.27)	28.7 (1.30)

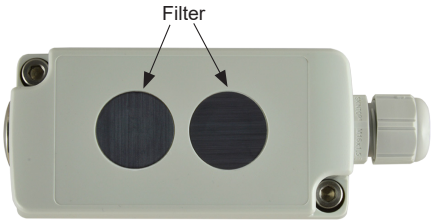
Duct mount with 90° rotated probe (T27)



Installation

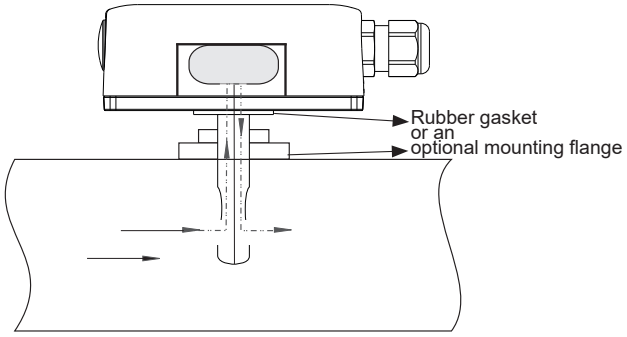
Wall mount

Choose a location which minimises the dust deposits on the filter.



Duct mount

When correctly installed, a small amount of air flows through the divided probe into the EE8915 enclosure, where the CO_2 sensing cell is located, and back into the duct.



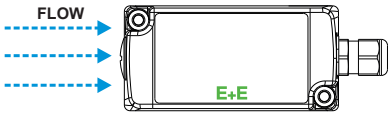
PLEASE NOTE

For accurate measurement and response time according to the specification:

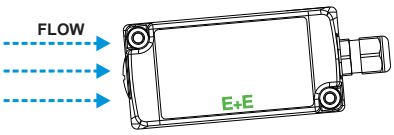
- Minimum air speed in the duct shall be 1 m/s (196 ft/m).
- The air flow shall be perpendicular to the opening holes on the head of probe.

Type T2

Correct

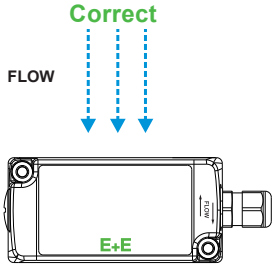


Incorrect

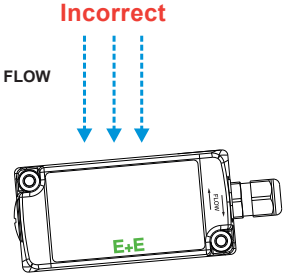


Type T27

Correct



Incorrect



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