

ATEX Sensors

For the use in explosive environments

BROSA offers high-quality ATEX sensors for force measurement in potentially explosive environments. All sensor types can be manufactured in intrinsically safe Ex i versions with an integrated 4-20 mA amplifier. The most frequently used sensors in offshore cranes, such as force measuring pins, tension load cells and angle encoders, are also available in flameproof Ex d versions, while tubular load cells are also available in Ex t versions for dust environments. These solutions enable simple integration into the overall system without the need for additional safety barriers.

Applications

- Offshore cranes and deck cranes
- Harbour cranes
- Hoist control
- Chemical industry
- Petrochemistry

Features

- Customized design
- Integrated amplifier
- „Intrinsically safe design“ Ex i
- „Flameproof design“ Ex d
- „Protection by enclosure“ Ex t
- High fatigue strength (verification on request)



Tension load cell, type 0113

BROSA tension load cell, Ex i and Ex d design

Sensor type	Tension load cell for gas applications
Explosion protection	ATEX Ex i, Ex d
ATEX / IECEx certification: Ex i	II 2G Ex ib IIC T4 Gb / IECEx Ex ib IIC T4 Gb
ATEX / IECEx certification: Ex d	II 2G Ex d IIC T4 Gb / IECEx Ex d IIC T4 Gb



Force measuring pin, type 0203

BROSA force measuring pin, Ex i and Ex d design

Sensor type	Force measuring pin for gas applications
Explosion protection	ATEX Ex i, Ex d
ATEX / IECEx certification: Ex i	II 2G Ex ib IIC T4 Gb / IECEx Ex ib IIC T4 Gb
ATEX / IECEx certification: Ex d	II 2G Ex d IIC T4 Gb / IECEx Ex d IIC T4 Gb



Tubular load cell, type 0205

BROSA tubular load cell, Ex i, Ex d and Ex t design

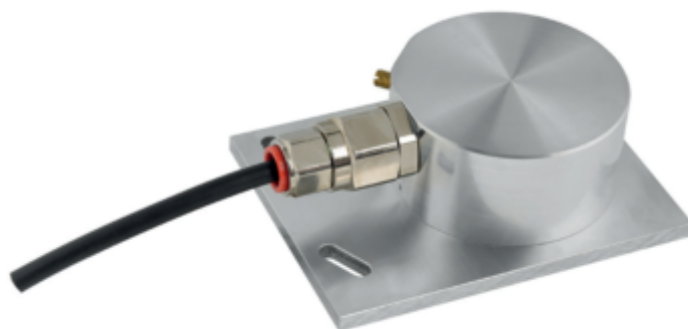
Sensor type	Tubular load cell for gas and dust applications
Explosion protection	ATEX Ex i, Ex d, Ex t
ATEX / IECEx certification: Ex i	II 2G Ex ib IIC T4 Gb / IECEx Ex ib IIC T4 Gb
ATEX / IECEx certification: Ex d	II 2G Ex db IIC T4 Gb / IECEx Ex db IIC T4 Gb
ATEX / IECEx certification: Ex t	II 2D Ex tb IIC T200°C Db / IECEx Ex tb IIC T200°C Db



Angle sensor, type 0813

BROSA angle sensor, Ex d design

Sensor type	Angle sensor for gas applications
Explosion protection	ATEX Ex d
ATEX / IECEx certification: Ex d	II 2G Ex d IIC T4 Gb / IECEx Ex d IIC T4 Gb



ISO 9001
ISO 14001



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