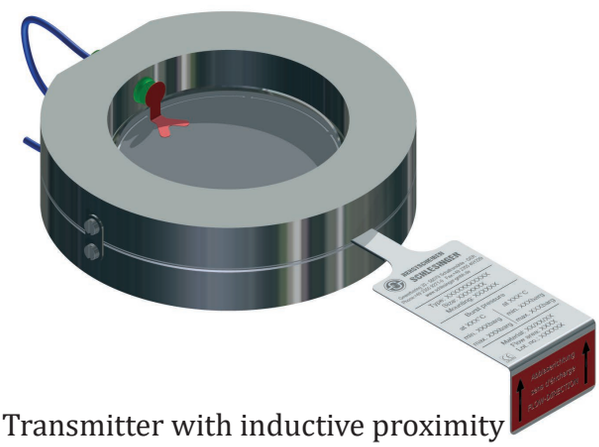
BERSTSCHEIBEN SCHLESINGER® GmbH
QUALITY SINCE 1912

Technical data sheet

Monitoring of bursting disc/ Transmitter

Type transmitter with inductive proximity switch

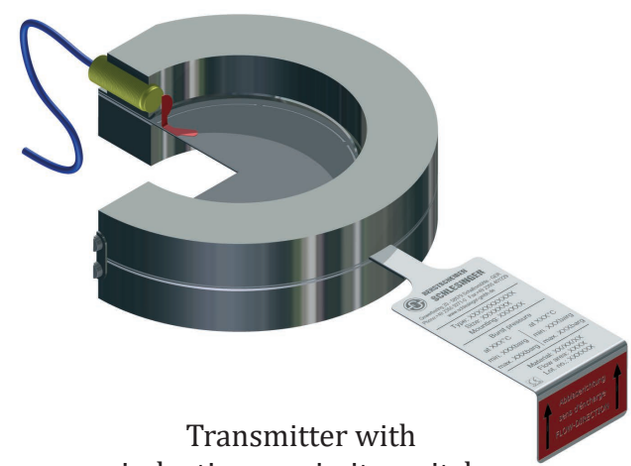
We also offer our bursting discs with a monitoring system to allow for automated monitoring of ongoing processes. This safety device accurately and immediately detects the response of a bursting disc within a plant or tank. This allows for countermeasures to be taken instantly.



Transmitter with inductive proximity switch in holder with composite bursting disc

Benefits

- Reliable and immediate signalling when the bursting disc bursts
- Suitable for explosion-protected areas
- Proximity switch remains undamaged after bursting, thus reducing repair costs

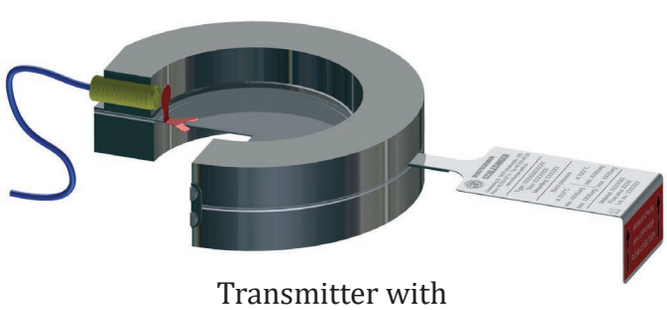


Transmitter with inductive proximity switch

Description

This signal transmitter consists of a sensor, the proximity switch and, at the customer‘s request, an additional isolating switch amplifier.
The inductive proximity switch is mounted at a distance of two to four millimetres to a metal lug that is fastened to the bursting disc. When the bursting disc opens in the event of a failure, the signal transmitter registers that the lug has changed its position.

After bursting, only the bursting disc needs to be exchanged, while the proximity switch remains undamaged.



Transmitter with inductive proximity switch

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Installation

The transmitter with inductive proximity switch is mounted in a holder that is in turn clamped between flanges.

Function

The signal transmitter with inductive proximity switch is primarily used in explosion-protected systems and containers with operating temperatures up to 150 degrees centigrade.

Technical data

General remarks	
Can be combined with the following bursting discs types:	composite bursting discs, reverse buckling bursting discs, rupture discs
Media	gas, steam, liquid
Temperature range	-40°C to +150°C

Mechanical specifications	
Type of connection	2 m, PVC cable
Housing material	stainless steel, PBT
Wire cross-section	0,34 mm^2

Voltage/current	
Nominal voltage	8 V
Switching frequency	0 - 1500 Hz

Certifications
CE marking according to Directive 2014/68 EU
QM-system according to ISO 9001:2015

Bursting pressure

The signal transmitter does not have an additional, inherent bursting pressure. The bursting pressure is determined by the respective bursting disc.

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