Microwave barrier transceiver Soliwave FDR16

Ultra-compact microwave barrier for noncontact point level detection, piece goods counting and object detection

Benefits:

- Non-contact measuring principle detection almost independent of process properties
- High security permanent self-diagnosis and full self-test
- First microwave barrier with IP69 protection classification
- Meets the requirements of EU 1935/2004
- Very simple and cost-effective commissioning
- Safe detection non-contact measuring method guarantees wear-free and maintenance-free continuous operation Robust design - housing made of stainless steel

Specs at a glance

- Process temperature Non-contact installation: any Within installation: -20 °C ... +60 °C (-4 °F ... +140 °F) With HT-Adapter: up to +450 °C (+842 °F)
- Process pressure absolute / max. overpressure limit Noncontact installation: any Within installation: 0.5 bar ... 6.8 bar (7.2 psi ... 99 psi) abs. With HP-Adapter: up to +21 bar (+305 psi) abs.
- Min. density of medium Solid weight: > 10 g/l

Field of application: The Soliwave FDR16 is an ultra-compact transceiver for non-contact point level detection of bulk solids and liquids, as well as piece goods counting and object detection. The Soliwave FDR16 is used together with the FQR16. The microwave barrier works with a non-contact detection method and can also be used in applications with difficult-to-access or confined installation conditions due to its ultra-





More information and current pricing: www.endress.com/FDR16

compact design. For non-metallic container materials, measurement from the outside is possible.

Features and specifications

Point Level / S	Solids
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Measuring principle

Microwave barrier

Characteristic / Application

Microwave barrier Non-contact point level detection (min/max, e.g. full and empty detection for overflow and dry run protection) for all types of bulk solids (from powdery to lumpy) and liquids, also in potentially explosive atmospheres (dust Ex). Detection, counting, and positioning of objects Object detection on conveyor belts

Specialities

Detection range: max. 20 m

Supply / Communication

18 V ... 30 V DC, Plug M12

Ambient temperature

-20 °C ... +60 °C (-4 ... +140 °F)

Process temperature

Non-contact installation: any Within installation: -20 °C ... +60 °C (-4 °F ... +140 °F) With HT-Adapter: up to +450 °C (+842 °F)

Point Level / Solids

Process pressure absolute / max. overpressure limit Non-contact installation: any Within installation: 0.5 bar ... 6.8 bar (7.2 psi ... 99 psi) abs. With HP-Adapter: up to +21 bar (+305 psi) abs.

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Main wetted parts Non-contact installation:

no wetted parts Contact installation: 316L, PTFE

Process connection ISO228-1: G1", G1-1/2" ASME: NPT1-1/2"

Process connection hygienic Non-contact installation

Communication 3-wire-DC-PNP,

2 DC-PNP-outputs

Certificates / Approvals ATEX, IEC Ex

Design approvals EN10204-3.1

Hygienic approvals

EG1935/2004

Point Level / Solids

Options

Mounting bracket Counternut Welding sleeve Connection cable Connecting cable High-pressure adapter High-temperature adapter Extension for HT-adapter Mounting flange Sight glass fitting FAR50, FAR51, FAR52, FAR54

Components

FQR16

Application limits Solid weight: < 10 g/l

More information www.endress.com/FDR16

