

Microwave barrier transceiver Soliwave FQR16

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



More information and current pricing:

www.ch.endress.com/FQR16

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 / 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.
- **Min. density of medium** Solid weight: > 10 g/l

Field of application: The Soliwave FQR16 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 FQR16 is used together with the FDR16. 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-

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

Features and specifications

Point Level / Solids

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 °F ... +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 / 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.

Min. density of medium

Solid weight: > 10 g/l

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

FDR16

Application limits

Solid weight: < 10 g/l

More information www.ch.endress.com/FQR16