

# Microwave barrier transceiver Soliwave FDR16

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



Más información y precios actuales:

[www.co.endress.com/FDR16](http://www.co.endress.com/FDR16)

## Ventajas:

- 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

## Resumen de especificaciones

- **Temperatura del proceso** Non-contact installation: any Within installation:  $-20\text{ °C} \dots +60\text{ °C}$  ( $-4\text{ °F} \dots +140\text{ °F}$ ) With HT-Adapter: up to  $+450\text{ °C}$  ( $+842\text{ °F}$ )
- **Presión de proceso absoluta / límite de sobrepresión máx.** 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.
- **Densidad min. del medio** Solid weight:  $> 10\text{ g/l}$

**Ámbito de aplicación:** 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-compact design. For non-metallic container materials, measurement from the outside is possible.

## Características y especificaciones

### Nivel del Punto / Sólidos

#### Measuring principle

Barrera microondas

#### Característica / Aplicación

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

#### Especialidades

Detection range: max. 20 m

#### Suministro / Comunicación

18 V ... 30 V DC,

Plug M12

#### Temperatura ambiente

-20 °C ... +60 °C (-4 °F ... +140 °F)

#### Temperatura del proceso

Non-contact installation: any

Within installation:

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With HT-Adapter:

up to +450 °C (+842 °F)

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Within installation:

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up to +21 bar (+305 psi) abs.

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**Densidad min. del medio**

Solid weight: &gt; 10 g/l

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**Principales partes húmedas**

Non-contact installation:

no wetted parts

Contact installation:

316L, PTFE

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**Conexión a proceso**

ISO228-1: G1", G1-1/2"

ASME: NPT1-1/2"

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**Conexión a proceso higiénica**

Non-contact installation

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**Comunicación**

3-wire-DC-PNP,

2 DC-PNP-outputs

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**Certificados / Aprobaciones**

ATEX, IEC Ex

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**Aprobaciones de diseño**

EN10204-3.1

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**Aprobaciones higiénicas**

EG1935/2004

Nivel del Punto / Sólidos

**Opciones**

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

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**Componentes**

FQR16

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**Límites de la aplicación**

Solid weight: < 10 g/l

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