

## OE106003

### High performance light barriers • Receiver unamplified

High-performance photoelectric sensor receiver, Ø10mm 45long, standard design, connection to amplifier, 2-pin cable tail 15m PVC, IP67, plastic+plastic



Optical sensors function contactlessly. They detect objects independent of their characteristics (e.g., shape, color, surface structure, material). The basic operating principle is based on the transmission and reception of light. There are three different versions: 1. The through-beam sensor consists of two separate devices, a transmitter and a receiver that are aligned with one another. If the light beam between the two devices is interrupted, the switching output integrated in the receiver changes its status. 2. With the retro-reflective sensor, the transmitter and receiver are located in one device. The emitted light beam is reflected back to the receiver by a reflector that is to be mounted opposite the device. As soon as the light beam is interrupted, the switching output integrated in the device changes its status. 3. With the diffuse reflection sensor, the transmitter and receiver are in one device. The emitted light beam is reflected by the object that is to be detected. As soon as the receiver detects the reflected light, the switching output integrated in the device changes its status.

#### Electrical features

Type of electrical connection	Cable
Line diameter	3.8mm
Switching distance	0 - 70000mm
Switching frequency	15Hz
Connection to amplifier	Yes

#### Mechanical features

Number of cores	2
Conductor cross-section	0.5mm <sup>2</sup>
Design	Cylinder plain
Diameter	10mm
Receiver design	Normal design
Cable length	15m
Storage temperature	-40 - 80°C
Length	45mm
Shock resistance	30g
Degree of protection (IP)	IP67
Vibration resistance	55Hz
Active area material of sensor	Plastic
Housing material	Plastic
Material of cable sheath	Plastic (PVC)
Ambient temperature	-25 - 60°C

**Optical features**

Light source	Infrared light
Light beam form	Point
Wavelength of the sensor	880nm
Angle of beam spread	25°

**Other features**

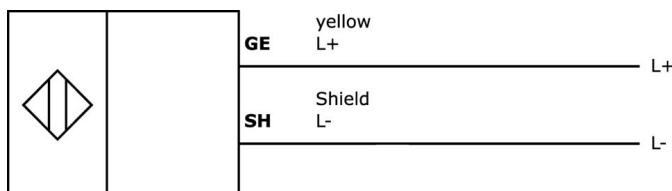
Scope of delivery	Receiver
Version	Through-beam sensor receiver

**Classification**

ETIM 8	EC002716 Through-beam photoelectric sensor
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**More**

IPF Product Group	101 high performance through-beam sensors and amplifiers
packaging dimensions	180 x 100 x 50 mm
gross weight	370 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

**Connection****Installation**

Mounting / installation may only be carried out by a qualified electrician!

**Disposal****Safety warnings**

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

Never use these devices in applications where the safety of a person depends on their functionality.

For suitable connection and mounting accessories, please refer to our website [www.ipf-electronic.com](http://www.ipf-electronic.com).

## Dimensional drawing

