

## OV580905

### High performance light barriers • Amplifier

High-performance photoelectric sensor amplifier, 76x78x40mm, 24V, PNP/NPN change-over contact (NO/NC), 11-pin plug connection, IP40, plastic, turn-off delay 10s



The article OV580905 is a single-channel amplifier for a light barrier from the subgroup "Amplifiers" within the super-group "High-performance light barriers". This amplifier, which processes information from the receiver and regulates the power of the transmitter, is characterized by its high range of up to 70000mm.

The high-performance light barrier systems, to which this amplifier belongs, have been specially developed for demanding applications where conventional light barriers reach their limits. They are extremely insensitive to dirt and can be used reliably even under heavy soiling conditions.

Thanks to their robust design, large angle of beam spread and easy mounting, these light barriers are ideal for applications in the wood and paper industry, vehicle washing systems, bulk material control, elevators, outdoor gate control, the food industry and other industrial environments.

The system consists of a transmitter, a receiver and an amplifier, with the OV580905 amplifier offering reliable performance and an impressive range.

**Electrical features**

Number of presets to be set	2
Number of channels	1
Number of contacts as change-over contact	1
Number of switching outputs	1
Display	LED display
Type of switching function	Change-over contact (NO/NC)
Type of electrical connection	Plug-in connection
Type of switching output	PNP/NPN
Turn-off delay	0 - 10ms
Rated switching current	5000mA
Input voltage tolerance	20%
Turn-on delay	0 - 10s
Setting procedure	Potentiometer
No-load current	83mA
Power consumption	5VA
Number of pins	11
Switching distance	0 - 70000mm
Switching frequency	18Hz
Switching capacity	2VA
Switching voltage	24V
Switching voltage AC	230V
Switching voltage DC	24V
Operating voltage (DC)	19,2 - 28,8V

**Mechanical features**

Design	Cuboid
Width	40mm
Height	76.5mm
Length	78.5mm
Mounting method	Relay base
Degree of protection (IP)	IP40
Housing material	Plastic
Ambient temperature	-25 - 50°C

**Optical features**

Range (transmitter with increased power, receiver with short design)	30
Range (transmitter with increased power, receiver with normal design)	35
Range (transmitter with maximum power, receiver with short design)	50
Range (transmitter with maximum power, receiver with normal design)	70
Range (transmitter with normal power, receiver with short design)	20
Range (transmitter with normal power, receiver with normal design)	25

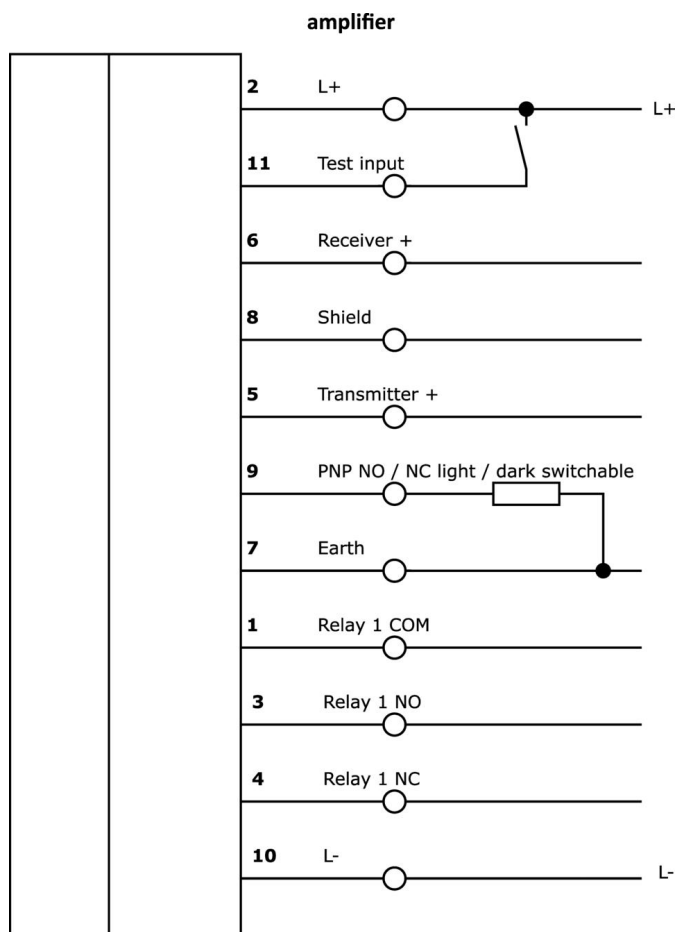
## Classification

ETIM 8	EC001485 Isolation amplifier
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## More

IPF Product Group	101 high performance through-beam sensors and amplifiers
packaging dimensions	120 x 80 x 45 mm
gross weight	160 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**