

OV580080

High performance light barriers • Amplifier

High-power photoelectric sensor amplifier, 76x78x40mm, 24V, NO/NC, 0-10V, plug connection 11-pin, IP40, plastic



The article OV580080 is a single-channel amplifier for a light barrier. With item number OV580080, it belongs to the "amplifiers" subgroup. These amplifiers process the information they receive from their receivers and regulate the power of their transmitters accordingly. The "amplifiers" subgroup in turn is part of the "high-power light barriers" supergroup.

The high-performance light barrier systems have been specially developed for applications where conventional light barriers reach their limits. They are characterized by extreme insensitivity to dirt and a range of up to 70000mm. Their performance makes them ideal for demanding applications such as the wood and paper industry, vehicle washing systems, bulk material control, elevators, outdoor gate control and the food industry.

The amplifiers and sensors in these systems are compact, robust and easy to install. Thanks to their large angle of beam spread, they can be easily aligned even at a range of 60 m and are insensitive to vibrations and shocks. The user-friendliness is underlined by the uncomplicated handling of the devices.

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 alarm output	Relay contact
Type of analog output	0 - 10V
Type of electrical connection	Plug-in connection
Type of switching output	PNP/NPN
Rated switching current	100mA
Input voltage tolerance	20%
Setting procedure	Potentiometer
Power consumption	2VA
Number of pins	11
Switching distance	0 - 70000mm
Switching frequency	30Hz
Switching function of the alarm output	Normally open contact (NO)
Switching capacity	3VA
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)	15
Range (transmitter with increased power, receiver with normal design)	35
Range (transmitter with maximum power, receiver with short design)	35
Range (transmitter with maximum power, receiver with normal design)	70
Range (transmitter with normal power, receiver with short design)	10
Range (transmitter with normal power, receiver with normal design)	25

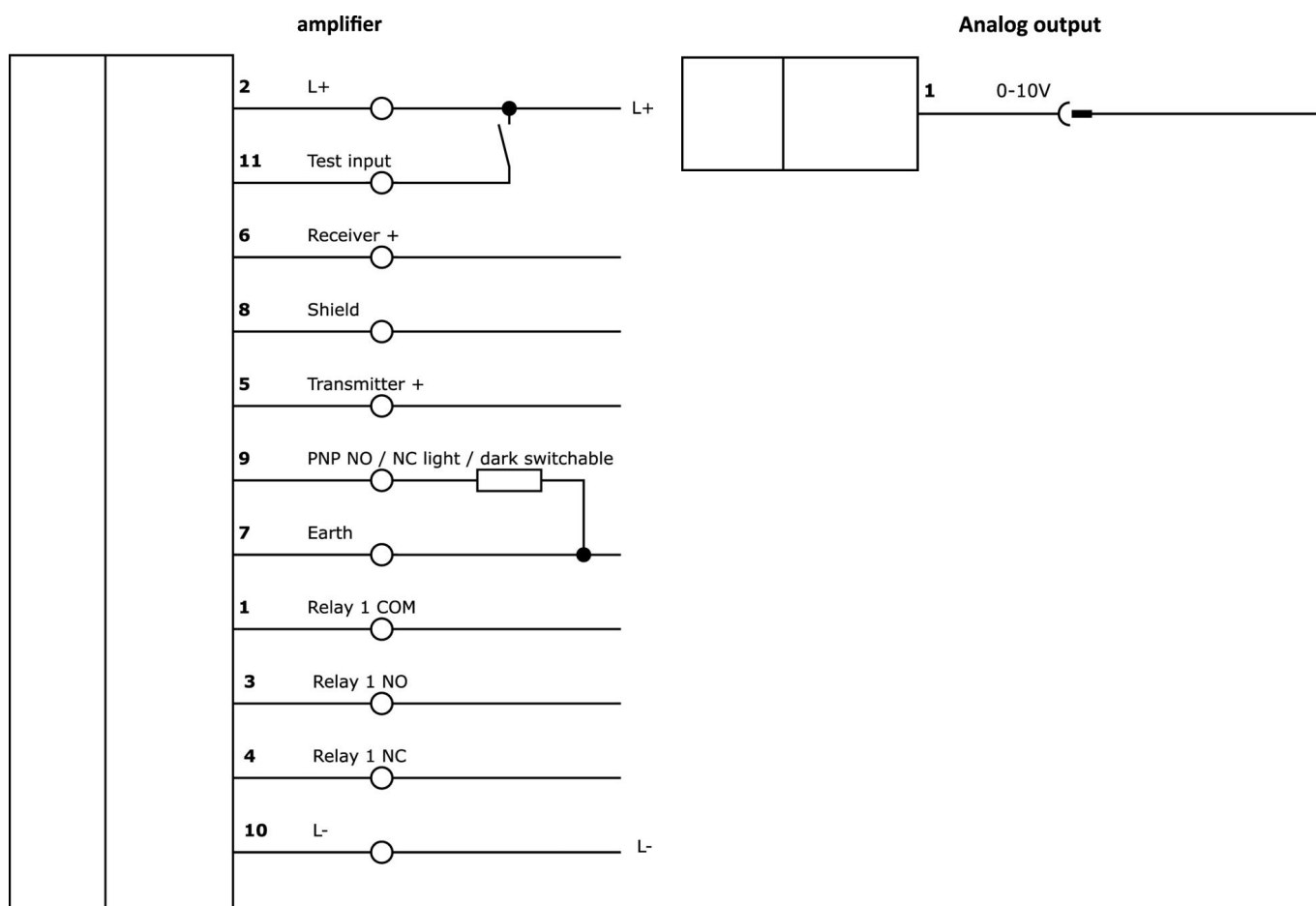
Classification

ETIM 8	EC001485 Isolation amplifier
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More

IPF Product Group	101 high performance through-beam sensors and amplifiers
packaging dimensions	185 x 100 x 85 mm
gross weight	306 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.

Dimensional drawing

