

ipf
electronic



ipf **SAFE**

optoelectronic
safety devices

safety light curtains
hand, finger and body protection
PL e · SIL 3
category 4 · all around protected
for highest safety

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safety light curtains

ipf safety light curtains

The new generation of opto-electronic safety equipment is an effective and cost saving alternative to conventional mechanical safety devices. Occupational health and personal safety have top priority in automated production and manufacturing processes.

Accident prevention curtains provide an invisible protection field made up of infrared beams. These can be used to make access to hazardous areas and hazardous places safe.



+

safety light curtains

category 4 finger protection

Light curtains are available with protection field heights of 150 to 1800mm, a resolution of 14mm and an operating distance of up to 6m.

category 4 hand protection

Different models are available with protection field heights of 150 to 1,800mm. These models have a resolution of 30mm and an operating distance of up to 19m is guaranteed.

category 4 body protection

Different models are available with protection field heights of 500, 800, 900 and 1,200mm. The number of light axes varies between 2 and 4, according to the model. This enables an operating distance of up to 50m.

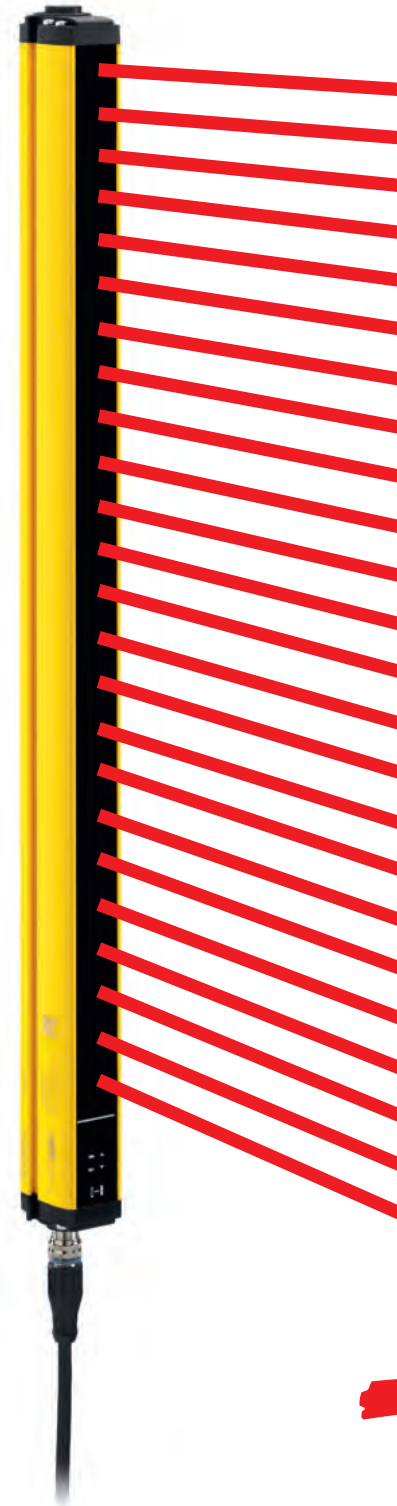
configuration

The receiver connection (**OY32**) provides you with a very easy and quick way to set devices.

With the **OY36**, the configuration takes place via special DIP switches which are housed behind a cover that is arranged on the front. This cover can be opened with a commercially available screwdriver. This way, configure the system according to your safety requirements.

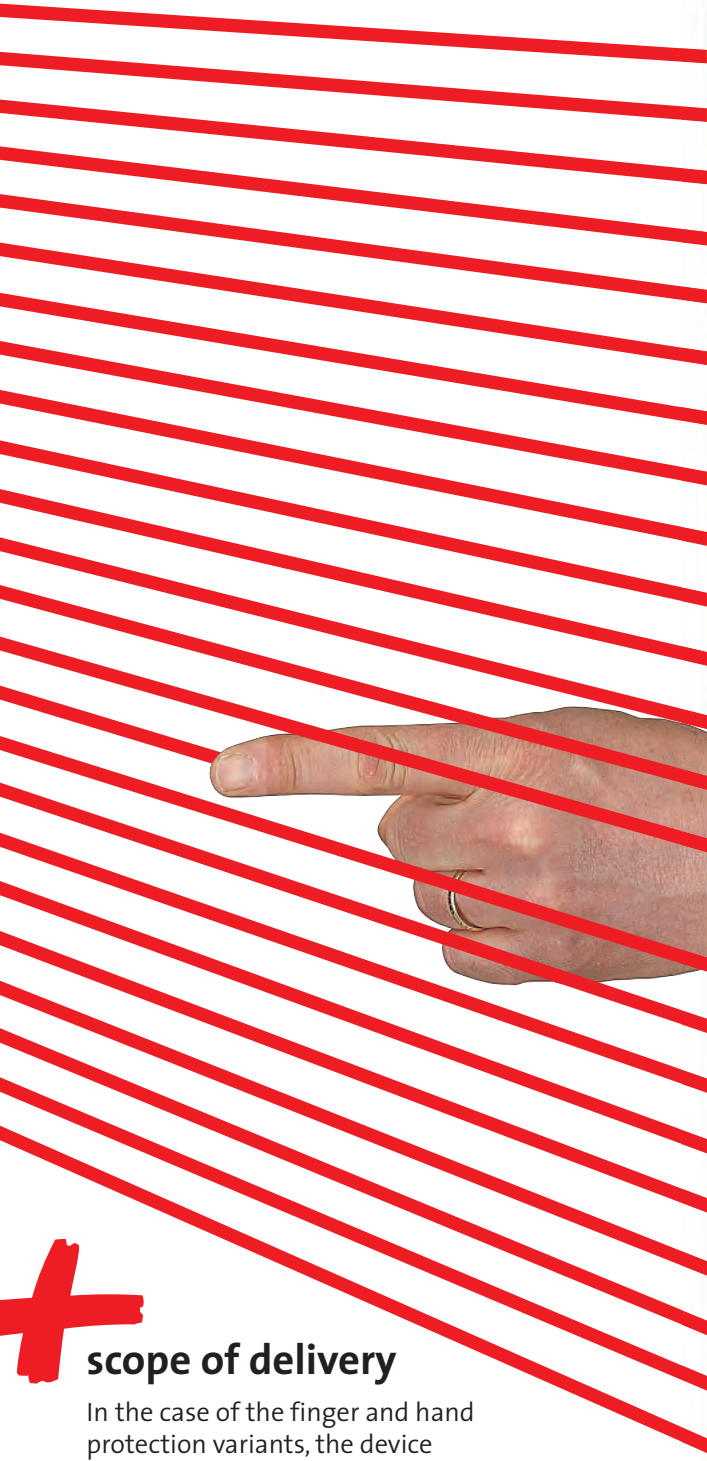
The system enables you to make a functional selection EDM function and manual or automatic restart.

With help of the EDM function, it is possible to monitor how the signal converter works.



Following a disruption to the protection field, it is possible to restart the safety light curtain in two different ways:

1. Automatic restart: The safety light curtain will go back to its normal function as soon as the protection field is free again.
2. Manual restart: When the protection field is free, the reset button has to be actuated in order to return the safety light curtain to the normal operational mode.



scope of delivery

In the case of the finger and hand protection variants, the device is delivered with the necessary fastening material and the corresponding test bars.



synchronization

The synchronization of the transmitter and receiver is realized with an optical method.

wide range of accessories

safety relay



mounting bracket



laser pointer



column and floor mountings



tilted mirrors



connection cables



test bars



To see a list of the extensive range of accessories, please consult the product data sheet.

danger point security type 4	finger protection		hand protection		body protection	
	article-no.	field height [mm]	article-no.	field height [mm]	article-no.	field height [mm]
	OY320130	150	OY320100	150	OY360110	500
	OY320131	300	OY320101	300	OY360111	800
	OY320132	450	OY320102	450	OY360112	900
	OY320133	600	OY320103	600	OY360113	1200
	OY320134	750	OY320104	750		
	OY320135	900	OY320105	900		
	OY320136	1050	OY320106	1050		
	OY320137	1200	OY320107	1200		
	OY320138	1350	OY320108	1350		
	OY320139	1500	OY320109	1500		
	OY32013A	1650	OY32010A	1650		
	OY32013C	1800	OY32010C	1800		



according to IEC 61496-1, IEC 61496-2			
operating voltage	24V DC ±20%	24V DC ±20%	24V DC ±20%
resolution	14mm	30mm	—
number of beams	16 ... 192	8 ... 96	2, 3, 4
operating distance	0.2 ... 6m	0.2 ... 19m	0.5 ... 50m
protection field height	150 ... 1800mm	150 ... 1800mm	500, 800, 900, 1200mm
response time	11 ... 50msec	9 ... 28msec	16msec
output	2 x pnp	2 x pnp	2 x pnp
connection	transmitter: M12-connector, 4-pin receiver: M12-connector, 8-pin	transmitter: M12-connector, 4-pin receiver: M12-connector, 8-pin	transmitter: M12-connector, 4-pin receiver: M12-connector, 8-pin
dimensions	32 x 37mm	32 x 37mm	35 x 41mm
function selection	manual-/ automatic restart EDM-function	manual-/ automatic restart EDM-function	manual-/ automatic restart EDM-function
certifications			

applications	<p>danger point security</p> <p>bending and cutting machines</p> <p>metal working machines</p> <p>presses and punch presses</p>	<p>danger point security</p> <p>metal working machines</p> <p>presses</p> <p>automotive industry</p>	<p>access security</p> <p>assembly robots</p> <p>conveying systems</p>
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+ quick an easy mounting

Without problems, simply mount the exceptionally compact and stable housing (aluminium) in every machine using the enclosed brackets. The safety light curtains can be twisted by means of additionally available mounting brackets. The system is highly shock resistant / vibration resistant.

+ conforming to standards

In accordance with the applicable standards, the safety light curtains are suitable for safeguarding hazardous areas and in cases where the operator is required to use finger, hand or body protection. Thanks to the compact dimensions 32 x 37mm = **OY32** und 35 x 41mm = **OY36**, as well as the simple connection and installation technology, this range of light curtains offers the operator optimum real protection in all industrial safety applications. The equipment is TÜV-tested.

+ simply connect and you're ready

Reverse polarity protection via an M12-connector: The transmitter is connected with a 4-pin connector and the receiver is connected with an 8-pin connector.

LED displays

Receiver:

LED »normal operation«: green
 »safe«: red
 LED »high align«: yellow
 LED »low align«: yellow
 The meaning of the LED on the receiver depends on the mode of operation.



Transmitter:

LED »normal operation«: yellow
 LED »power on«: green





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Subject to alteration!