SAFEasy™ TYPE 2 LIGHT CURTAINS





- Integrated light curtains for BODY PROTECTION
- Versions with 2/3/4 beams
- · Special slot for device setting
- 35 x 40 mm compact profile

SE2-BODY SERIES

The **SAFEasy™** light curtains, according to the IEC 61496-1 e IEC 61496-2 standards, are suitable for detecting the human body when approaching dangerous areas.

Models with different standard heights (500, 800, 900, 1200 mm), with 2, 3, 4 beams and operating distance reaching 50 m are available.

Specific dip-switches, that can be reached through a slot present on the front of the receiver protected by a lid and opened with a simple screwdriver, guarantee rapid and safe device setting.

The operator is thus able to configure, according to the specific needs, the manual or automatic Restart, as well as the Muting and partial Muting functions.

The emitter-receiver units are optically synchronised and contain all the control circuits, inputs and outputs inside the housing.

The **SAFEasy™** light curtains have also integrated the test function, automatically activated every second, without stopping the machine's working cycle.

A wide range of industrial applications, requiring operator safety, can be solved by the **SAFEasy™** light curtains, thanks to the extremely compact dimensions (35x40 mm) and easy connection and installation.





TECHNICAL DATA

Consumption:	Power supply:	24 Vdc ± 20% (SELV/PELV)
Light emission: infrared LED 880 nm Optic diameter: Ø 16 mm Number of controlled beams: refer to table 1 Optic interaxis: refer to table 2 Resolution: refer to table 3 Through beam operating distance: 0.5 50 m Receiver inputs: external switches for Muting, Test, Restart and Override Receiver indicators: green / red SAFE / BREAK LED 2 yellow ALIGNMENT LEDs green POWER ON LED Emitter indicators: yellow blinking FAILURE LED green POWER ON LED Output type: 2 PNP Output current: 0.7 A max. (using both outputs) 0.5 A max. (for both outputs from 45°C - 55°C) short-circuit signalling and protection Response time: 14 ms Selectable functions: Total / partial Muting Manual / Automatic Restart refer to table 4 Time-out period: Muting: 10 minutes Override: 2 minutes Muting: 30 minutes Muting signalling lamp: 24 V 3 W min. (125 mA), 7 W max. (300 mA) Receiver connection: 4-pole M12 connector Emitter connection: 4-pole M12 connector Cable length: 50 m max. (with 50 nF capacitive load) Safety category: type 2 Electrical protection: class 1 Mechanical protection: UP65 IP67 (connector part) Housing material: aluminium with PC Makrolon plastic caps Weight: 1.2 Kg max. / m of total height Operating temperature: -25 +70 °C Reference standards: EN 954-1, IEC 61496-1, IEC 61496-2	Consumption:	70 mA max. / 2.1 W (emitter)
Optic diameter: Ø 16 mm Number of controlled beams: refer to table 1 Optic interaxis: refer to table 2 Resolution: refer to table 3 Through beam operating distance: 0.5 50 m Receiver inputs: external switches for Muting, Test, Restart and Override Receiver indicators: green / red SAFE / BREAK LED 2 yellow ALIGNMENT LEDs green POWER ON LED Emitter indicators: yellow blinking FAILURE LED green POWER ON LED green POWER ON LED Utput type: 2 PNP Output current: 0.7 A max. (using both outputs) 0.5 A max. (for both outputs from 45°C - 55°C) short-circuit signalling and protection Response time: 14 ms Selectable functions: Total / partial Muting Manual / Automatic Restart refer to table 4 Time-out period: Muting: 10 minutes Override: 2 minutes Muting: 10 minutes Override: 2 minutes Muting: 10 minutes Override: 2 minutes Muting: 10 minutes Override: 2 minutes <		100 mA max. / 3 W (receiver without load)
Number of controlled beams:	Light emission:	infrared LED 880 nm
Optic interaxis: refer to table 2 Resolution: refer to table 2 Ist beam installation height: refer to table 3 Through beam operating distance: 0.5 50 m Receiver inputs: external switches for Muting, Test, Restart and Override Receiver indicators: green / red SAFE / BREAK LED 2 yellow ALIGNMENT LEDS green POWER ON LED Emitter indicators: yellow blinking FAILURE LED green POWER ON LED Output type: 2 PNP Output current: 0.7 A max. (using both outputs) 0.5 A max. (using one single output) 0.25 A max. (using one single output) 0.25 A max. (using and protection Response time: 14 ms Selectable functions: Total / partial Muting Manual / Automatic Restart refer to table 4 Time-out period: Muting: 10 minutes Override: 2 minutes Muting signalling lamp: 24 V 3 W min. (125 mA), 7 W max. (300 mA) Receiver connection: 4-pole M12 connector Emitter connection: 4-pole M12 connector Cable length: 50 m max. (with 50 nF capacitive load) Safety category: type 2 Electrical protection: class 1 Mechanical protection: 1P65 PF0 (connector part) Housing material: aluminium with PC Makrolon plastic caps Weight: 1.2 Kg max. / m of total height Operating temperature: -10 +55 °C Storage temperature: -25 +70 °C Reference standards: EN 954-1, IEC 61496-1, IEC 61496-2	Optic diameter:	Ø 16 mm
Resolution:	Number of controlled beams:	refer to table 1
Through beam operating distance:	Optic interaxis:	. refer to table 2
Through beam operating distance:	Resolution:	refer to table 2
Receiver inputs:	1st beam installation height:	refer to table 3
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0.25 A max. (for both outputs from 45°C - 55°C) short-circuit signalling and protection Response time:	Output current:	0.7 A max. (using both outputs)
short-circuit signalling and protection Response time:		0.5 A max. (using one single output)
Response time:		0.25 A max. (for both outputs from 45°C - 55°C)
Selectable functions: Total / partial Muting Manual / Automatic Restart refer to table 4 Time-out period: Muting: 10 minutes Override: 2 minutes Muting signalling lamp: 24 V 3 W min. (125 mA), 7 W max. (300 mA) Receiver connection: 8-pole M12 connector Emitter connection: 4-pole M12 connector Cable length: 50 m max. (with 50 nF capacitive load) Safety category: type 2 Electrical protection: class 1 Mechanical protection: IP65 IP67 (connector part) Housing material: aluminium with PC Makrolon plastic caps Weight: 1.2 Kg max. / m of total height Operating temperature: -10 +55 °C Storage temperature: -25 +70 °C Reference standards: EN 954-1, IEC 61496-1, IEC 61496-2		short-circuit signalling and protection
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Safety category:	Selectable functions: Time-out period: Muting signalling lamp:	14 ms . Total / partial Muting Manual / Automatic Restart refer to table 4 . Muting: 10 minutes Override: 2 minutes 24 V 3 W min. (125 mA), 7 W max. (300 mA)
Electrical protection:	Selectable functions: Time-out period: Muting signalling lamp: Receiver connection:	14 ms . Total / partial Muting Manual / Automatic Restart refer to table 4 . Muting: 10 minutes Override: 2 minutes 24 V 3 W min. (125 mA), 7 W max. (300 mA) 8-pole M12 connector
Mechanical protection: IP65 IP67 (connector part) Housing material: aluminium with PC Makrolon plastic caps Weight: 1.2 Kg max. / m of total height Operating temperature: -10 +55 °C Storage temperature: -25 +70 °C Reference standards: EN 954-1, IEC 61496-1, IEC 61496-2	Selectable functions: Time-out period: Muting signalling lamp: Receiver connection: Emitter connection:	14 ms . Total / partial Muting Manual / Automatic Restart refer to table 4 . Muting: 10 minutes Override: 2 minutes 24 V 3 W min. (125 mA), 7 W max. (300 mA) 8-pole M12 connector4-pole M12 connector
Housing material:	Selectable functions: Time-out period: Muting signalling lamp: Receiver connection: Emitter connection: Cable length:	14 ms . Total / partial Muting Manual / Automatic Restart refer to table 4 Muting: 10 minutes Override: 2 minutes 24 V 3 W min. (125 mA), 7 W max. (300 mA) 8-pole M12 connector 4-pole M12 connector 50 m max. (with 50 nF capacitive load)
Housing material: aluminium with PC Makrolon plastic caps Weight: 1.2 Kg max. / m of total height Operating temperature: -10 +55 °C Storage temperature: -25 +70 °C Reference standards: EN 954-1, IEC 61496-1, IEC 61496-2	Selectable functions: Time-out period: Muting signalling lamp: Receiver connection: Emitter connection: Cable length: Safety category:	14 ms . Total / partial Muting Manual / Automatic Restart refer to table 4 . Muting: 10 minutes Override: 2 minutes 24 V 3 W min. (125 mA), 7 W max. (300 mA) 8-pole M12 connector 4-pole M12 connector 50 m max. (with 50 nF capacitive load) type 2
Weight: 1.2 Kg max. / m of total height Operating temperature: -10 +55 °C Storage temperature: -25 +70 °C Reference standards: EN 954-1, IEC 61496-1, IEC 61496-2	Selectable functions: Time-out period: Muting signalling lamp: Receiver connection: Emitter connection: Cable length: Safety category: Electrical protection:	14 ms . Total / partial Muting Manual / Automatic Restart refer to table 4 . Muting: 10 minutes Override: 2 minutes 24 V 3 W min. (125 mA), 7 W max. (300 mA) 8-pole M12 connector 4-pole M12 connector 50 m max. (with 50 nF capacitive load) type 2 class 1
Operating temperature: -10 +55 °C Storage temperature: -25 +70 °C Reference standards: EN 954-1, IEC 61496-1, IEC 61496-2	Selectable functions: Time-out period: Muting signalling lamp: Receiver connection: Emitter connection: Cable length: Safety category: Electrical protection:	14 ms Total / partial Muting Manual / Automatic Restart refer to table 4 Muting: 10 minutes Override: 2 minutes 24 V 3 W min. (125 mA), 7 W max. (300 mA) 8-pole M12 connector 4-pole M12 connector 50 m max. (with 50 nF capacitive load) type 2 class 1 IP65
Storage temperature: -25 +70 °C Reference standards: EN 954-1, IEC 61496-1, IEC 61496-2	Time-out period: Muting signalling lamp: Receiver connection: Emitter connection: Cable length: Safety category: Electrical protection: Mechanical protection:	14 ms Total / partial Muting Manual / Automatic Restart refer to table 4 Muting: 10 minutes Override: 2 minutes 24 V 3 W min. (125 mA), 7 W max. (300 mA) 8-pole M12 connector 4-pole M12 connector 50 m max. (with 50 nF capacitive load) type 2 class 1 IP65 IP67 (connector part)
Reference standards: EN 954-1, IEC 61496-1, IEC 61496-2	Selectable functions: Time-out period: Muting signalling lamp: Receiver connection: Emitter connection: Cable length: Safety category: Electrical protection: Mechanical protection: Housing material:	14 ms Total / partial Muting Manual / Automatic Restart refer to table 4 Muting: 10 minutes Override: 2 minutes 24 V 3 W min. (125 mA), 7 W max. (300 mA) 8-pole M12 connector 4-pole M12 connector 50 m max. (with 50 nF capacitive load) type 2 class 1 IP65 IP67 (connector part) aluminium with PC Makrolon plastic caps
	Selectable functions: Time-out period: Muting signalling lamp: Receiver connection: Emitter connection: Cable length: Safety category: Electrical protection: Mechanical protection: Housing material: Weight:	14 ms Total / partial Muting Manual / Automatic Restart refer to table 4 Muting: 10 minutes Override: 2 minutes 24 V 3 W min. (125 mA), 7 W max. (300 mA) 8-pole M12 connector 4-pole M12 connector 50 m max. (with 50 nF capacitive load) type 2 class 1 IP65 IP67 (connector part) aluminium with PC Makrolon plastic caps 1.2 Kg max. / m of total height
Certifications:	Selectable functions: Time-out period: Muting signalling lamp: Receiver connection: Emitter connection: Cable length: Safety category: Electrical protection: Mechanical protection: Housing material: Weight: Operating temperature:	14 msTotal / partial Muting Manual / Automatic Restart refer to table 4Muting: 10 minutes Override: 2 minutes 24 V 3 W min. (125 mA), 7 W max. (300 mA)8-pole M12 connector4-pole M12 connector50 m max. (with 50 nF capacitive load)type 2class 1IP65 IP67 (connector part)aluminium with PC Makrolon plastic caps1.2 Kg max. / m of total height10 +55 °C
	Time-out period: Muting signalling lamp: Receiver connection: Emitter connection: Cable length: Safety category: Electrical protection: Mechanical protection: Housing material: Weight: Operating temperature: Storage temperature: Reference standards:	14 ms Total / partial Muting Manual / Automatic Restart refer to table 4 Muting: 10 minutes Override: 2 minutes 24 V 3 W min. (125 mA), 7 W max. (300 mA) 8-pole M12 connector 4-pole M12 connector 50 m max. (with 50 nF capacitive load) type 2 class 1 IP65 IP67 (connector part) aluminium with PC Makrolon plastic caps 1.2 Kg max. / m of total height10 +55 °C25 +70 °C EN 954-1, IEC 61496-1, IEC 61496-2

TABLES

Model	Beams
SE2 height 500	2
SE2 height 800	3
SE2 height 900	4
SE2 height 1200	4

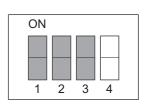
Table 1: NUMBER OF BEAMS

Model	mm
SE2 height 500	500 / 515
SE2 height 800	400 / 415
SE2 height 900	300 / 315
SE2 height 1200	400 / 415

Table 2: INTERAXIS / RESOLUTION

Model	mm
SE2 height 500	400
SE2 height 800	300
SE2 height 900	300
SE2 height 1200	300

Table 3: 1st BEAM INSTALLATION HEIGHT



GREY dip-switches: total / partial Muting selection WHITE dip-switches: manual / auto. Restart selection

Table 4: DIP-SWITCH SELECTION





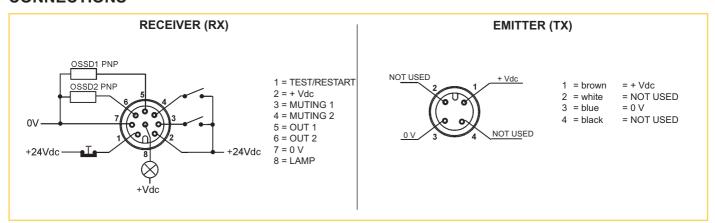




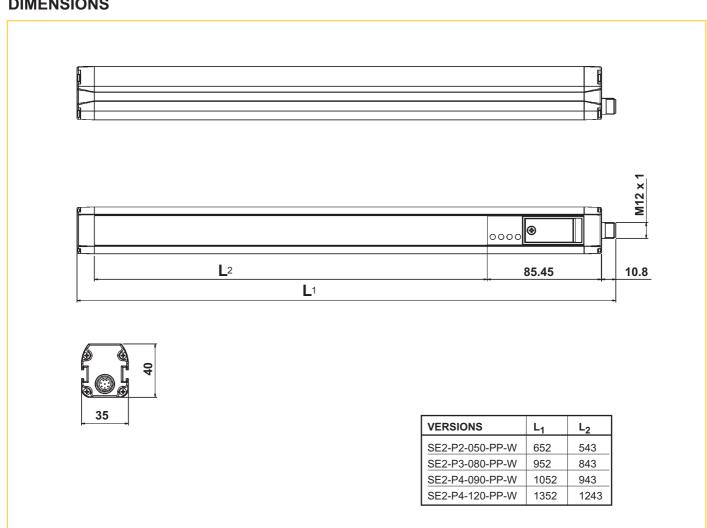




CONNECTIONS



DIMENSIONS



mm





MODEL SELECTION AND ORDER INFORMATION

MODEL	DESCRIPTION	CODE N°
SE2-P2-050-PP-W	type 2 safety light curtain with 2 beams	957101110
SE2-P3-080-PP-W	type 2 safety light curtain with 3 beams	957101120
SE2-P4-090-PP-W	type 2 safety light curtain with 4 beams	957101130
SE2-P4-120-PP-W	type 2 safety light curtain with 4 beams	957101140

ACCESSORY SELECTION AND ORDER INFORMATION

Please refer also to Safey Device Accessories

Note: All the accessories have to be ordered separately

Distributed by:

HEADQUARTERS

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Datasensor SpA endeavours to continuously improve and renew its products; for this reason the technical data and contents of this catalogue may undergo variations without prior notice. For correct installation and use Datasensor SpA can guarantee only the data indicated in the instruction manual supplied with the products.

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