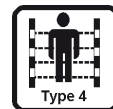


SAFEasy™ TYPE 4 LIGHT CURTAINS

- *Integrated light curtains for **BODY PROTECTION***
- *'T' shaped, 'L' shaped and linear versions with 2 and 3 beams*
- *Pre-assembled, pre-wired and pre-aligned Muting sensors*
- *Integrated Muting lamp*

SE4T-L MUTING SERIES

The **SAFEasy™** light curtains, conforming with the IEC 61496-1 and IEC 61496-2 standards, are Type 4 safety devices according to EN 954-1 and are particularly suitable for body protection of operators exposed to risk.

The safety light curtains of the **SE4T-L MUTING** series satisfy all applications that require the Muting function, thanks to the use of pre-assembled, pre-cabled and pre-aligned Muting sensors. Models with 'T' integrated Muting sensors for two-way Muting, 'L' integrated Muting sensors for one-way Muting and linear versions without integrated Muting sensors are available.

Models with 2 and 3 safety beams with 500 and 800 mm detection heights offer 3 m operating distance for 'T' and 'L' shaped versions, or 25 m operating distance for linear versions.

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

The user can configure the manual or automatic Restart, L or T Muting mode, a 10' or infinite Muting time-out as well as the EDM function.

All models are equipped with a luminous Muting signalling lamp built-in on the top of the receiving unit.

The compact dimensions (35 x 40 mm), patent-covered, easy installation and excellent performances make the **SAFEasy™** light curtains particularly suitable for applications that require material passage through a dangerous area, as for example in palletisers / depalletisers.

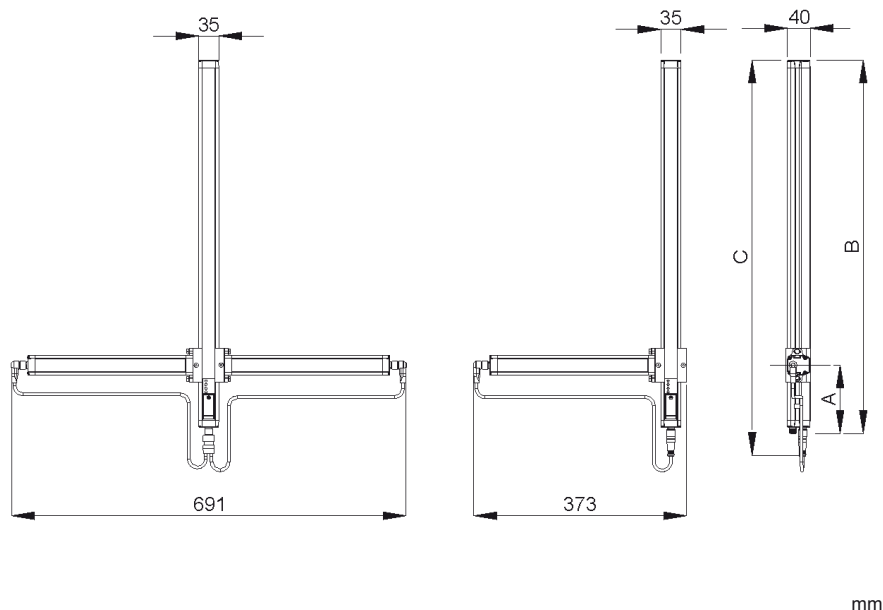
SAFEasy™ TYPE 4 LIGHT CURTAINS

(495) 221-58-89 <http://www.newic.ru> <http://www.insensor.ru>

The main features of the safety light curtains of the SE4T-L MUTING series are given below:

- possibility of vertically adjusting the horizontal arms along the device slot, with an angular regulation of $\pm 8^\circ$;
- use of polarised retroreflex Muting sensors with red emission;
- device configuration through dip-switches positioned on the receiver front side for selection of manual or automatic Restart, the number of Muting sensors, 10 minute or infinite Muting time-out and EDM function;
- simple connection thanks to two M12 8 and 5 pole connectors for the receiver and M12 4-pole connector for the emitter;
- SE-SRT connection box, for on board installation, is available as an accessory, with integrated safety relays for the Reset, Restart, and Override.
- sensor and reflector bars are available as accessories to be mounted to the linear SE4-S versions to obtain 'L' and 'T' configurations.

DIMENSIONS



mm

MODEL	A	B	C
SE4-T2-050-PP-W	120...260	653	690
SE4-T3-080-PP-W	120...260	953	990
SE4-L2-050-PP-W	120...260	653	690
SE4-L3-080-PP-W	120...260	953	990
SE4-S2-050-PP-W	-	653	690
SE4-S3-080-PP-W	-	953	990

Patented easy installation

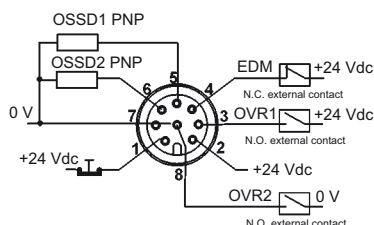


Built-in Muting lamp



CONNECTIONS

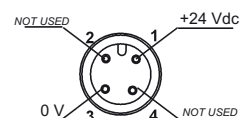
RECEIVER (RX)



- | | |
|------------|--------------|
| 1 = white | = TEST/START |
| 2 = brown | = +24 Vdc |
| 3 = green | = OVERRIDE 1 |
| 4 = yellow | = EDM |
| 5 = grey | = OSSD1 |
| 6 = pink | = OSSD2 |
| 7 = blue | = 0 V |
| 8 = red | = OVERRIDE 2 |

- | | |
|-----------|------------|
| 1 = brown | = +24 Vdc |
| 2 = white | = MUTING 1 |
| 3 = blue | = 0 V |
| 4 = black | = MUTING 2 |
| 5 = grey | = NOT USED |

EMITTER (TX)



- | | |
|-----------|------------|
| 1 = brown | = +24 Vdc |
| 2 = white | = NOT USED |
| 3 = blue | = 0 V |
| 4 = black | = NOT USED |

TECHNICAL DATA

Power supply:	24 Vdc \pm 20% (SELV / PELV)
Consumption:	30 mA max. / 0,9 W (emitter)
	75 mA max. / 2,2 W (receiver without load)
	35 mA max. / 1 W (horizontal arm with sensors OFF)
Light emission:	infrared LED 880 nm
Optic diameter:	\varnothing 16 mm
Number of controlled beams:	refer to table
Optic interaxis:	refer to table
Resolution:	refer to table
1st beam installation height:	refer to table
Through beam operating distance:	0.5 ... 3 m (SE4-T/SE4-L vers.)
	0.5 ... 25 m (SE4-S vers.)
Receiver indicators:	green / red SAFE / BREAK LED
	2 yellow ALIGNMENT LEDS
	green POWER ON LED
	built-in yellow MUTING LAMP
Emitter indicators:	yellow blinking FAILURE LED
	green POWER ON LED
Output type:	2 PNP
Output current:	0.5 A max. each output, short-circuit protection
Response time:	14 ms
Selectable functions:	refer to table
Muting signal activation timing:	max. 4 sec.
Time-out period:	Muting: 10 minutes / infinite
	Override: 2 minutes
Receiver connection:	M12 5-pole / 8-pole connector
Emitter connection:	M12 4-pole connector
Cable length:	50 m max (with 50 nF capacitive load)
Safety category:	Type 4
Electrical protection:	class 1
Mechanical protection:	IP65
Housing material:	aluminium with PC Makrolon plastic caps
Weight:	3.8 Kg max. (T vers.)
	2.9 Kg max. (L vers.)
	2 Kg max. (Linear vers.)
Operating temperature:	-10 ... +55 °C
Storage temperature:	-25 ... +70 °C
Reference standards:	EN 954-1, IEC 61496-1, IEC 61496-2



SELECTION TABLE

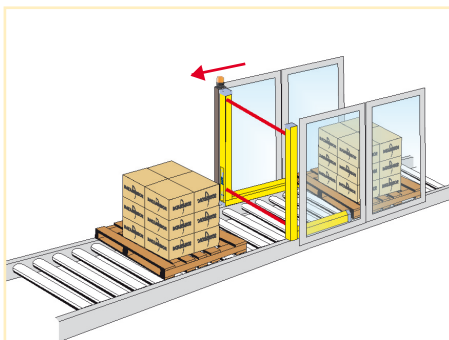
SE4-T2-050-PP-W	
order n°:	957201751
beam n°:	2
optic interaxis:	500 mm
resolution:	515 mm
1st beam installation height:	400 mm
SE4-T3-080-PP-W	
order n°:	957201761
beam n°:	3
optic interaxis:	400 mm
resolution:	415 mm
1st beam installation height:	300 mm
SE4-L2-050-PP-W	
order n°:	957201771
beam n°:	2
optic interaxis:	500 mm
resolution:	515 mm
1st beam installation height:	400 mm
SE4-L3-080-PP-W	
order n°:	957201781
beam n°:	3
optic interaxis:	400 mm
resolution:	415 mm
1st beam installation height:	300 mm
SE4-S2-050-PP-W	
order n°:	957201791
beam n°:	2
optic interaxis:	500 mm
resolution:	515 mm
1st beam installation height:	400 mm
SE4-S3-080-PP-W	
order n°:	957201801
beam n°:	3
optic interaxis:	400 mm
resolution:	415 mm
1st beam installation height:	300 mm



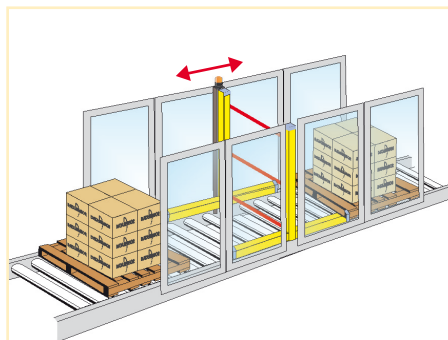
DIP-SWITCHES

- 1 - 10 min. (ON) / infinite (OFF) Muting time-out
- 2 - 'T' mode (ON) / 'L' mode (OFF)
- 3 - EDM inactive (ON) / EDM active (OFF)
- 4 - Automatic (ON) / manual (OFF) Restart

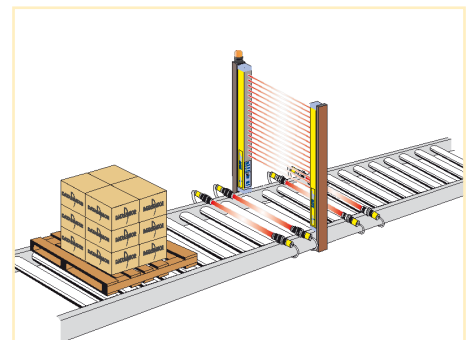
FUNCTIONING MODE



Version with 'L' integrated Muting sensors for unidirectional Muting



Version with 'T' integrated Muting sensors for bidirectional Muting



Linear version with external Muting sensors

MODEL SELECTION AND ORDER INFORMATION

MODEL	DESCRIPTION	ORDER N°
SE4-T2-050-PP-W	Type 4 'T' shaped safety light curtain with 2 beams	957201751
SE4-T3-080-PP-W	Type 4 'T' shaped safety light curtain with 3 beams	957201761
SE4-L2-050-PP-W	Type 4 'L' shaped safety light curtain with 2 beams	957201771
SE4-L3-080-PP-W	Type 4 'L' shaped safety light curtain with 3 beams	957201781
SE4-S2-050-PP-W	Type 4 linear safety light curtain with 2 beams	957201791
SE4-S3-080-PP-W	Type 4 linear safety light curtain with 3 beams	957201801

ACCESSORY SELECTION AND ORDER INFORMATION

MODEL	DESCRIPTION	ORDER N°
SE-SRT	Muting connection box	95ASE1001
SE4-RLS	'L' active sensor bar	95ASE1030
SE4-LR	'L' passive reflector bar T/L	95ASE1080
SE4-RTS	'T' active sensor bar	95ASE1050
SE4-TR	'T' passive reflector bar T/L	95ASE1090
CV-Y1-02-B-007	M12 4-pole cable 0.7 m for 'T' versions with integrated sensors	95ACC2560
CV-L1-02-B-007	M12 4-pole cable 0.7 m for 'L' versions with integrated sensors	95ACC2570

Please refer also to **Safety Device Accessories**

Note: all accessories have to be ordered separately

SAFETY DEVICES

Distributed by:

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