

SAFEGATE SM 1951

Order Code: **1390032**

Finger Detection Safety Light Curtain with Integrated Muting Function. Automatic/Manual Restart and EDM



Safety level

Type 4 - PL e

Protected height (mm)

1960

Resolution (mm)

14

Max. range (m)

6

Restart

Built-in - User selectable
automatic or manual

Functioning system

Emitter / Receiver

Muting Function

Integrated

Built-in Muting lamp

No

Technical Description

Safety Light Curtain: Type 4, SIL 3, SILCL 3, PL e, Cat. 4

Cross Section: 50 x 55 mm

Hardware configuration: no programming necessary, easy to install and replace

Connection and configuration through M12 connectors

3 Pre-Configured Muting Logics: Exit-Only (Parallel or Crossed Beams), Entry-Exit (Parallel Beams), Entry-Exit (Crossed Beams)

Unshielded cables up to 100 m can be used to connect the Safety Light Curtain

What's in the Box: Emitter, Receiver and Standard Fastening Brackets

Features

Safety level	Type 4 - PL e
Protected height (mm)	1960
Resolution (mm)	14
Controlled height (mm)	1950
Max. range (m)	6
Restart	Built-in - User selectable automatic or manual
Functioning system	Emitter / Receiver
Safety level (SIL / PL)	Type 4 - SIL 3 - SILCL 3 - PL e - Cat. 4
Operating temperature (°C)	- 30 ... 55
Response time (ms)	19,9
Number of beams	195
Max. length of the connection cables (m)	100
Muting Function	Integrated
Muting logic	T (Two way) logic with 2 or 4 sensors crossed or parallel beams. L (One way) logic with 2 sensors crossed or parallel beams
Max. override time-out	15 min.
Max. Muting time-out	30 sec. or 9 hours selectable - Infinite (models with 4 sensors sequential Muting logic only)
Built-in Muting lamp	No
Muting sensors	External with relay or PNP DARK-ON output, Muting arms kit, Muting brackets with M5 sensors kit

Signalling	LEDs indication for diagnostics, light curtain's status and Muting sensors status
Safety output type	2 fail-safe PNP (400 mA at 24 VDC) with protection against short circuit, overload and reverse polarity
Connections	M12 5-pole male connector (emitter), M12 12-pole male connector (receiver), M12 5-pole female connectors (Muting sensors) M12 5-pole female connector (external Muting lamp)
MTTFD (ISO13849) years	177
PFHD (IEC 61508)	4,01E-08
Safety outputs	2 fail-safe PNP (400 mA at 24 VDC)
Safety functions	Integrated
Detection	Finger
Operating Range (m)	Selectable: 0 ... 3 m - low range / 1 ... 6 m - high range
Protective enclosures	None
Packaging dimensions HxLxW (mm)	145 x 2140 x 200
Product class	B
Custom tariff	85365019

Electrical data

Power supply (VDC)	24 $\pm$ 20%
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Mechanical data

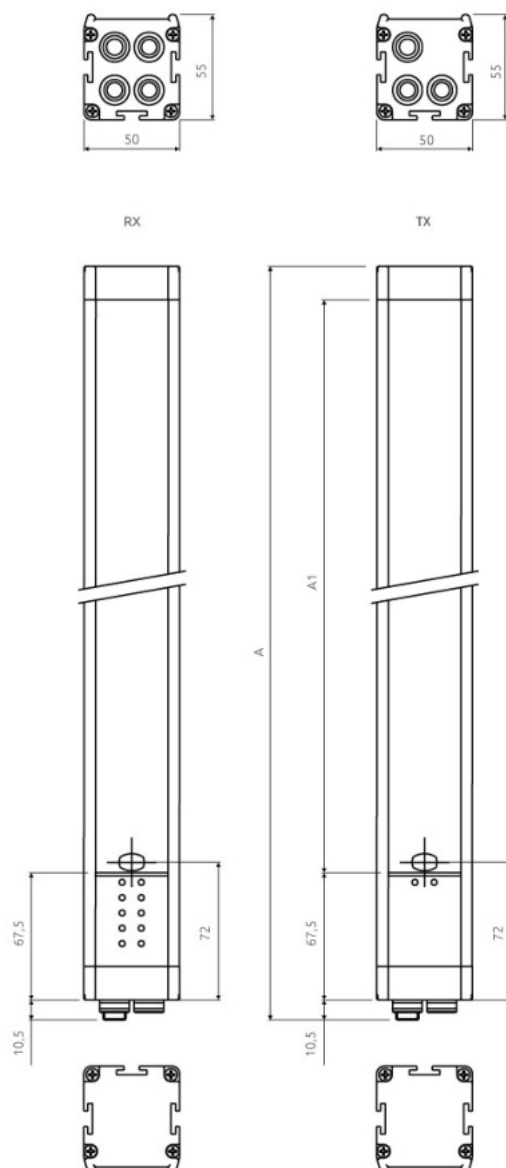
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Overall height (mm)	2045
Cross section dimensions (mm)	50 x 55
Degree of protection	IP65 - IP67
Fastening	Back slot, side slot with set of LL type brackets (included). SFB SG swivel brackets (optional)

Technical drawings

A1 (Controlled height) = 1950 mm

A (Overall height) = 2045 mm



Certificates

