



# SG2 Muting

957801790

SG2-30-165-OO-W

TYPE 2 SAFETY LIGHT CURTAIN FOR HAND DETECTION  
WITH MUTING

## OVERVIEW

- No dead zone
- Pigtail cable with M12 connector
- Up to 20m operating range and 1800m protected height
- Compact dimensions (35 x 41 mm section)
- Anti-interference coding
- Integrated Muting function
- Configurable with Pushbuttons

## TECHNICAL FEATURES

### Detection properties

Nominal sensing distance	0,2 ... 20 m
Resolution	30mm
controlled height	1650 mm
number of rays	88
Sensitivity adjustment	Teach-in
Effective Aperture Angle	$\leq \pm 5^\circ$

## Application

Function Principle	Emitter + Receiver
Available functions	Manual/Automatic Restart, EDM, Range Reduction (on TX), Muting, Override
Description	Compact no-dead-zone
Functions	Hand protection res. 30 mm muting

## Safety parameters

Type	Type 2 safety light curtain (A/M)
SIL	1
SILCL	1
PL	c
PFHd	1,04E-08
Dcavg	97,50%
MTTFd	273 years
SFF	98,40%

## Outputs

Output type	2 x PNP-NO (OSSD safety output) with EDM
Response time	21,1 ms

## Electrical data

Operating Voltage	24 Vdc $\pm$ 20%
Load current	$\leq$ 500mA each output
Emission	Infrared LED (950 nm wavelength)
Interference to external light	According to IEC 61496-2
Power Consumption - Receiver	$\leq$ 5W (no load)
Power Consumption - Emitter	$\leq$ 3W
Capacitive Load	$\geq$ 2,2 $\mu$ F
Cabel Length (Power Supply/Output)	$\leq$ 50m

#### Mechanical data

Dimensions	35x41x1656
Connections	M12-5 poles pig-tail (emitter) M12-12 poles + M12-5poles pig-tails (receiver)
Storage temperature	-25...+ 70°C
Material	Painted aluminum / PMMA / PBT Valox 508 / PC LEXAN
Vibrations	Width 0.35 mm, frequency 10 ... 55Hz; 20 sweep per axis, 1octave/min (EN 60068-2-6)
Shocks	16 ms (10 G) 1,000 shocks per axis (EN 60068-2-29)

#### Test/Approvals

Approvals	CE, cULus, TÜV
EMC compatibility	According to 2014/30/EU Directive

## Accessories

Supplied Accessories	Standard "L" Mounting Brackets: 6 pcs kit
----------------------	---

## Generical Data

Dimensions	35x40,75x1656,3 mm
------------	--------------------

Operating Temperature	0...+50°C
-----------------------	-----------

Humidity	15 ... 95 % (no condensation)
----------	-------------------------------

Mechanical Protection	IP65
-----------------------	------

## **Datasensing S.r.l.**

Strada S.Caterina, 235  
41122 Modena (MO)  
Tel. 059 420411  
Fax 059 253973  
E-mail  
[info@datasensing.com](mailto:info@datasensing.com)

**date of  
printing**  
07/04/2026  
07:16:45