SAFEasy™ TYPE 2 LIGHT CURTAINS





- Integrated light curtains for <u>PRESENCE CONTROL PROTECTION</u>
- 50 and 90 mm resolution and operating distance up to 15 m
- 31 x 32 mm compact profile
- Versions with automatic or manual RESTART

SF2-50/90 SERIES

The **SAFEasy™** light curtains of the **SF2** series, according to the IEC 61496-1 and IEC 61496-2 standards, are very suitable for presence detection of operators exposed to risks.

Different models are available with nine standard heights ranging from 300 to 1500 mm, with 50 or 90 mm resolution and an operating distance reaching 15 m.

The emitter and receiver units are optically synchronised and contain all the control circuits, test input and two safety outputs inside the housing.

The connection with the machine stopping circuits are guaranteed by unshielded M12 4-pole connectors for the emitter and M12 5-pole connectors for the receiver.

The **SAFEasy**™ light curtains of the **SF2** series have also integrated the test function, automatically activated every 0.5 seconds, without stopping the machine's working cycle.

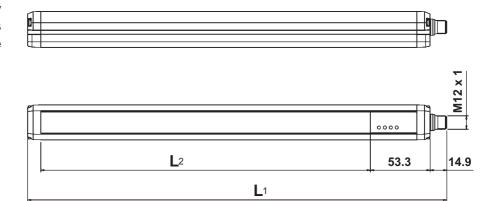
A wide range of industrial applications, requiring operator safety, can be solved by the $SAFEasy^{TM}$ light curtains, thanks to the extremely compact dimensions (31x32 mm), easy installation and excellent performances.



SF2 PRESENCE CONTROL PROTECTION

Presence control is obtained positioning horizontally the safety light curtain. This installation allows to continuously control the presence of an obstacle inside a specific area. This is a particularly useful solution when dangerous area, not visible from the machine control points, has to be protected.







 L_2

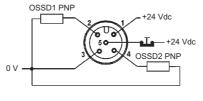


CONTROLLED	
HEIGHT	L ₁
(mm)	
300	374
450	57-

CONNECTIONS

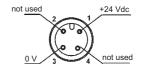
RECEIVER (RX)

EMITTER (TX)

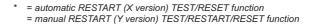


1 = brown = +24 Vdc 2 = white = OSSD1 3 = blue = 0 V

4 = black = OSSD2 5 = grey = TEST *



1 = brown = +24 Vdc 3 = blue = 0 V







TECHNICAL DATA

TECHNICAL DATA		
Power supply (Vdd):	24 Vdc ± 20% (SELV / PELV)	
Consumption:	50 mA max. / 1 W (emitter)	
<u> </u>	90 mA max. / 2.5 W (receiver without load)	
Light emission:	infrared LED 880 nm	
Optic diameter:	Ø 18 mm	
Number of controlled beams:	refer to table 1	
Optic interaxis:	3.75 mm (SF2-50); 7.4 mm (SF2-90)	
Resolution:	50 / 90 mm	
Controlled height:	refer to table 2	
Operating distance:	0.2 15 m	
Receiver inputs:	external switches for Test and Restart	
Receiver indicators:	2 yellow ALIGNMENT LEDs	
	red BREAK LED	
	green SAFE LED	
Emitter indicators:	yellow WORKING UNIT CHECK LED	
	green POWER ON LED	
Output type:	2 PNP	
	short-circuit protection: max.1.4 A at 55°C	
	min. 1.2 A at 0 °C	
Output current (for all loads):	500 mA max. per output	
Output voltage ON min.:	Vdd - 1 V	
Output voltage OFF max.:	0.2 V	
Leakage current:	0.65 mA	
Capacitive load (pure):	100 nF max.	
Resistive load (pure):	60 Ω min.	
Response time:	refer to table 3	
Receiver connection:	M12 5-pole connector	
Emitter connection:	M12 4-pole connector	
Safety category:	type 2	
Electrical protection:	class 1	
Mechanical protection:	IP65 (EN 60529)	
	IP67 (connector part)	
Housing material:	painted aluminium	
Cap end material:	PBT	
Lens material:	PMMA	
Cable length:	50 m max * (at 100nF capacitive load and Vdd=24V)	
	M12 conductors (according to EN 50044, EN 60947-5-2)	
	poles \emptyset = 32x0.1mm, external \emptyset = 0.5mm	
Weight:	1 Kg. max. / m of total height	
Operating temperature:	0 +55 °C	
Storage temperature:	-25 +70 °C	
Reference standards:	EN 954-1, IEC 61496-1, IEC 61496-2	

 $^{^{\}star}$ = if a longer cable has to be used, please verify that the same specifications are respected

TABLES

Model	SF2-50	SF2-90
SF2 height 300	9	5
SF2 height 450	13	7
SF2 height 600	17	9
SF2 height 750	21	11
SF2 height 900	25	13
SF2 height 1050	29	15
SF2 height 1200	33	17
SF2 height 1350	37	19
SF2 height 1500	41	21

Table 1: NUMBER OF CONTROLLED BEAMS

Model	SF2
SF2 height 300	334
SF2 height 450	481
SF2 height 600	628
SF2 height 750	775
SF2 height 900	922
SF2 height 1050	1069
SF2 height 1200	1216
SF2 height 1350	1363
SF2 height 1500	1510

Table 2: CONTROLLED HEIGHT (mm)

Model	SF2
SF2 height 300	15
SF2 height 450	16
SF2 height 600	17
SF2 height 750	18
SF2 height 900	19
SF2 height 1050	20
SF2 height 1200	22
SF2 height 1350	23
SF2 height 1500	24

Table 3: RESPONSE TIME (ms)











SELECTION AND ORDER INFORMATION TABLE

DESCRIPTION

MODEL

\$F2-50-030-PP-X Type 2 safety light curtain h=300 mm \$57081201 \$F2-50-045-PP-X Type 2 safety light curtain h=450 mm \$57081220 \$F2-50-005-PP-X Type 2 safety light curtain h=750 mm \$57081220 \$F2-50-075-PP-X Type 2 safety light curtain h=750 mm \$57081220 \$F2-50-090-PP-X Type 2 safety light curtain h=900 mm \$57081220 \$F2-50-100-PP-X Type 2 safety light curtain h=900 mm \$57081240 \$F2-50-100-PP-X Type 2 safety light curtain h=1050 mm \$57081250 \$F2-50-100-PP-X Type 2 safety light curtain h=1050 mm \$57081250 \$F2-50-130-PP-X Type 2 safety light curtain h=1300 mm \$57081270 \$F2-50-130-PP-X Type 2 safety light curtain h=1300 mm \$57081270 \$F2-50-150-PP-X Type 2 safety light curtain h=1500 mm \$57081280 \$F2-50-150-PP-X Type 2 safety light curtain h=300 mm \$57081280 \$F2-50-030-PP-Y Type 2 safety light curtain h=450 mm \$57081380 \$F2-50-045-PP-Y Type 2 safety light curtain h=600 mm \$57081380 \$F2-50-045-PP-Y Type 2 safety light curtain h=750 mm \$57081380 \$F2-50-075-PP-Y Type 2 safety light curtain h=750 mm \$57081380 \$F2-50-075-PP-Y Type 2 safety light curtain h=750 mm \$57081400 \$F2-50-075-PP-Y Type 2 safety light curtain h=750 mm \$57081440 \$F2-50-105-PP-Y Type 2 safety light curtain h=100 mm \$57081420 \$F2-50-105-PP-Y Type 2 safety light curtain h=100 mm \$57081420 \$F2-50-105-PP-Y Type 2 safety light curtain h=100 mm \$57081430 \$F2-50-105-PP-Y Type 2 safety light curtain h=100 mm \$57081430 \$F2-50-105-PP-Y Type 2 safety light curtain h=100 mm \$57081430 \$F2-50-105-PP-Y Type 2 safety light curtain h=100 mm \$57081450 \$F2-50-130-PP-Y Type 2 safety light curtain h=100 mm \$57081450 \$F2-90-030-PP-X Type 2 safety light curtain h=100 mm \$57081450 \$F2-90-045-PP-X Type 2 safety light curtain h=300 mm \$57081300 \$F2-90-045-PP-X Type 2 safety light curtain h=300 mm \$57081300 \$F2-90-045-PP-X Type 2 safety light curtain h=300 mm \$57081300 \$F2-90-045-PP-X Type 2 safety light curtain h=300 mm \$57081300 \$F2-90-045-PP-X Type 2 safety light curtain h=300 mm \$57081300 \$F2-9	SF2-50 with automatic RESTART		
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SF2-50-120-PP-Y Type 2 safety light curtain h=1200 mm 957081440 SF2-50-135-PP-Y Type 2 safety light curtain h=1350 mm 957081450 SF2-50-150-PP-Y Type 2 safety light curtain h=1500 mm 957081450 SF2-90 with automatic RESTART SF2-90-030-PP-X Type 2 safety light curtain h=300 mm 957081290 SF2-90-045-PP-X Type 2 safety light curtain h=450 mm 957081300 SF2-90-060-PP-X Type 2 safety light curtain h=600 mm 957081310 SF2-90-075-PP-X Type 2 safety light curtain h=750 mm 957081320 SF2-90-090-PP-X Type 2 safety light curtain h=750 mm 957081330 SF2-90-105-PP-X Type 2 safety light curtain h=1050 mm 957081340 SF2-90-120-PP-X Type 2 safety light curtain h=1200 mm 957081350 SF2-90-135-PP-X Type 2 safety light curtain h=1350 mm 957081360 SF2-90-150-PP-X Type 2 safety light curtain h=1500 mm 957081370 SF2-90-030-PP-Y Type 2 safety light curtain h=300 mm 957081470 SF2-90-045-PP-Y Type 2 safety light curtain h=600 mm 957081480 SF2-90-060-PP-Y Type 2 safety light	SF2-50-090-PP-Y	Type 2 safety light curtain h=900 mm	957081420
SF2-50-135-PP-Y Type 2 safety light curtain h=1350 mm 957081450 SF2-50-150-PP-Y Type 2 safety light curtain h=1500 mm 957081460 SF2-90 with automatic RESTART SF2-90-030-PP-X Type 2 safety light curtain h=300 mm 957081290 SF2-90-045-PP-X Type 2 safety light curtain h=450 mm 957081300 SF2-90-060-PP-X Type 2 safety light curtain h=600 mm 957081310 SF2-90-075-PP-X Type 2 safety light curtain h=750 mm 957081320 SF2-90-090-PP-X Type 2 safety light curtain h=900 mm 957081330 SF2-90-105-PP-X Type 2 safety light curtain h=1050 mm 957081340 SF2-90-120-PP-X Type 2 safety light curtain h=1200 mm 957081350 SF2-90-135-PP-X Type 2 safety light curtain h=1350 mm 957081360 SF2-90-150-PP-X Type 2 safety light curtain h=1500 mm 957081370 SF2-90-030-PP-Y Type 2 safety light curtain h=1500 mm 957081370 SF2-90-030-PP-Y Type 2 safety light curtain h=1500 mm 957081470 SF2-90-050-PP-Y Type 2 safety light curtain h=600 mm 957081490 SF2-90-075-PP-Y Type 2 safety light curtain h=700 mm	SF2-50-105-PP-Y	Type 2 safety light curtain h=1050 mm	957081430
SF2-50-150-PP-Y Type 2 safety light curtain h=1500 mm 957081460 SF2-90 with automatic RESTART SF2-90-030-PP-X Type 2 safety light curtain h=300 mm 957081290 SF2-90-045-PP-X Type 2 safety light curtain h=450 mm 957081300 SF2-90-060-PP-X Type 2 safety light curtain h=600 mm 957081310 SF2-90-090-PP-X Type 2 safety light curtain h=700 mm 957081320 SF2-90-090-PP-X Type 2 safety light curtain h=900 mm 957081330 SF2-90-105-PP-X Type 2 safety light curtain h=1050 mm 957081340 SF2-90-120-PP-X Type 2 safety light curtain h=1200 mm 957081350 SF2-90-135-PP-X Type 2 safety light curtain h=1350 mm 957081360 SF2-90-150-PP-X Type 2 safety light curtain h=1500 mm 957081370 SF2-90-030-PP-Y Type 2 safety light curtain h=300 mm 957081470 SF2-90-030-PP-Y Type 2 safety light curtain h=450 mm 957081470 SF2-90-045-PP-Y Type 2 safety light curtain h=600 mm 957081490 SF2-90-075-PP-Y Type 2 safety light curtain h=750 mm 957081500 SF2-90-090-PP-Y Type 2 sa	SF2-50-120-PP-Y	Type 2 safety light curtain h=1200 mm	957081440
SF2-90 with automatic RESTART SF2-90-030-PP-X Type 2 safety light curtain h=300 mm 957081290 SF2-90-045-PP-X Type 2 safety light curtain h=450 mm 957081300 SF2-90-060-PP-X Type 2 safety light curtain h=600 mm 957081310 SF2-90-075-PP-X Type 2 safety light curtain h=750 mm 957081320 SF2-90-090-PP-X Type 2 safety light curtain h=900 mm 957081330 SF2-90-105-PP-X Type 2 safety light curtain h=1050 mm 957081340 SF2-90-120-PP-X Type 2 safety light curtain h=1200 mm 957081350 SF2-90-135-PP-X Type 2 safety light curtain h=1350 mm 957081360 SF2-90-150-PP-X Type 2 safety light curtain h=1500 mm 957081370 SF2-90 with manual RESTART Type 2 safety light curtain h=300 mm 957081470 SF2-90-030-PP-Y Type 2 safety light curtain h=450 mm 957081480 SF2-90-045-PP-Y Type 2 safety light curtain h=600 mm 957081500 SF2-90-060-PP-Y Type 2 safety light curtain h=750 mm 957081500 SF2-90-090-PP-Y Type 2 safety light curtain h=900 mm 957081510 SF2-90-105-PP-Y Type 2 safety light curtain h=1050	SF2-50-135-PP-Y	Type 2 safety light curtain h=1350 mm	957081450
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SF2-90-135-PP-X Type 2 safety light curtain h=1350 mm 957081360 SF2-90-150-PP-X Type 2 safety light curtain h=1500 mm 957081370 SF2-90 with manual RESTART SF2-90-030-PP-Y Type 2 safety light curtain h=300 mm 957081470 SF2-90-045-PP-Y Type 2 safety light curtain h=450 mm 957081480 SF2-90-060-PP-Y Type 2 safety light curtain h=600 mm 957081490 SF2-90-075-PP-Y Type 2 safety light curtain h=750 mm 957081500 SF2-90-090-PP-Y Type 2 safety light curtain h=900 mm 957081510 SF2-90-105-PP-Y Type 2 safety light curtain h=1050 mm 957081520 SF2-90-120-PP-Y Type 2 safety light curtain h=1200 mm 957081530 SF2-90-135-PP-Y Type 2 safety light curtain h=1350 mm 957081540	SF2-90-105-PP-X		957081340
SF2-90-150-PP-X Type 2 safety light curtain h=1500 mm 957081370 SF2-90 with manual RESTART SF2-90-030-PP-Y Type 2 safety light curtain h=300 mm 957081470 SF2-90-045-PP-Y Type 2 safety light curtain h=450 mm 957081480 SF2-90-060-PP-Y Type 2 safety light curtain h=600 mm 957081490 SF2-90-075-PP-Y Type 2 safety light curtain h=750 mm 957081500 SF2-90-090-PP-Y Type 2 safety light curtain h=900 mm 957081510 SF2-90-105-PP-Y Type 2 safety light curtain h=1050 mm 957081520 SF2-90-120-PP-Y Type 2 safety light curtain h=1200 mm 957081530 SF2-90-135-PP-Y Type 2 safety light curtain h=1350 mm 957081540	SF2-90-120-PP-X	Type 2 safety light curtain h=1200 mm	957081350
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SF2-90-075-PP-Y Type 2 safety light curtain h=750 mm 957081500 SF2-90-090-PP-Y Type 2 safety light curtain h=900 mm 957081510 SF2-90-105-PP-Y Type 2 safety light curtain h=1050 mm 957081520 SF2-90-120-PP-Y Type 2 safety light curtain h=1200 mm 957081530 SF2-90-135-PP-Y Type 2 safety light curtain h=1350 mm 957081540	SF2-90-045-PP-Y	Type 2 safety light curtain h=450 mm	957081480
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SF2-90-120-PP-Y Type 2 safety light curtain h=1200 mm 957081530 SF2-90-135-PP-Y Type 2 safety light curtain h=1350 mm 957081540	SF2-90-090-PP-Y	Type 2 safety light curtain h=900 mm	957081510
SF2-90-135-PP-Y Type 2 safety light curtain h=1350 mm 957081540	SF2-90-105-PP-Y	Type 2 safety light curtain h=1050 mm	957081520
71	SF2-90-120-PP-Y	Type 2 safety light curtain h=1200 mm	957081530
SF2-90-150-PP-Y Type 2 safety light curtain h=1500 mm 957081550	SF2-90-135-PP-Y	Type 2 safety light curtain h=1350 mm	957081540
	SF2-90-150-PP-Y	Type 2 safety light curtain h=1500 mm	957081550

ACCESSORIES SELECTION AND ORDER INFORMATION TABLE

MODEL	DESCRIPTION	CODE N°
CS-A1-03-G-03	M12 5-pole unshielded axial 3 m connector	95ACC2110
CS-A1-03-G-05	M12 5-pole unshielded axial 5 m connector	95ACC2120
CS-A1-03-G-10	M12 5-pole unshielded axial 10 m connector	95ACC2140
CS-A1-02-G-03	M12 4-pole unshielded axial 3 m connector	95A251380
CS-A1-02-G-05	M12 4-pole unshielded axial 5 m connector	95A251270
CS-A1-02-G-10	M12 4-pole unshielded axial 10 m connector	95A251390
ST-KSF2	anti-scratch fixing bracket (4 pcs)	95ACC2320

Please refer also to Safey Device Accessories













HEADQUARTERS

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SAFETY DEVICES

CODE N°