

Type 4 in accordance with EN61496

2, 3 ou 4 beams

Multibeams – detection capability 40 mm



Ideal for the protection of :

- Robotised area
- Assembly lines
- Automatic storage
- Access area for wire guided trucks
- ...

Presentation

SR40 safety light micro barriers satisfy the most demanding safety, ergonomics and productivity criteria governing the protection of people working on machines.

SR40 safety barrier is a photoelectric device :

- **2,3 or 4 beams**
- **Multibeams with detection capability 40 mm**

Ideal for long distance protection with or without mirrors.

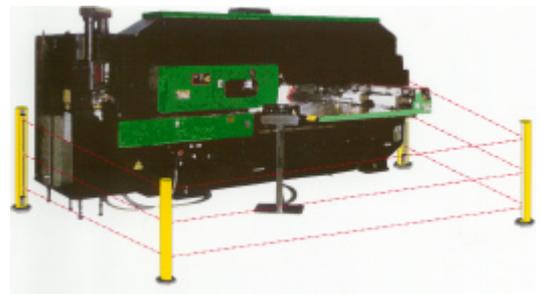
Thanks to its small bulk, SR40 becomes perfectly integrated into any installations without further constraints for the designer.

SR40 barrier is composed of an emitter and a receiver equipped with two safety solid state outputs. It's an autonomous barrier with all integrated safety functions, which can work without additional safety external module. SR40 is a type 4 optoelectronic safety device according to standards EN61496-1 and IEC61496-2.

SR40 can be connected to the machine stopping control through either the SWH4 safety modules, or a safety PLC, or another control system.

SR40 Choice

- Multibeams device.
- Dimensions of section : 50x60 mm
- **Working range : until 60 m .**
- Power supply 24VDC ±20%
- Safety solid state outputs protected against short-circuit and overload.
- **Output Diagnostic to prevent any misalignment of the safety barrier or clogging of optical glasses.**
- Electrical connection with connectors
- LED integrated supplying information on the condition of the beams and about perfect alignment of the barrier
- **Integrated digital display supplying information for troubleshooting.**
- **Three possible fixation modes of the barrier:** behind or on the side with the help of the fastening brackets included, or on the end top (optional fastening brackets).



⇒ *Important excess gain for hard environments.*

⇒ *Large range of accessories (mirrors, mechanicals posts ,brackets) .*

Technical Characteristics



Models	SR4OC403H	SR4OC405H	SR4OC407H	SR4OC409H	SR4OC411H
Protected height (mm)	610	910	1210	1510	1810
Number of beams	20	30	40	50	60
Overall barrier height (mm)	736	1036	1336	1636	1936
Detection capability (mm)	40	40	40	40	40

models	Multi beams models		
	SR4OC02FH	SR4OC03FH	SR4OC04FH
Number of beams	2	3	4
Distance between 2 beams (mm)	500	400	300

Electrical Characteristics

Working range SR40	m	30-60
Start / restart		Manual or automatic
Power supply	VDC	24V ± 20%
Maximum consumption	W	3 W emitter and 6 W receiver
Safety output		2 PNP – 500mA, 24VDC
Alarm Output		1 PNP – 100 mA 24 VDC
Response time	ms	From 7 to 28,5 ms
Operating temperature	°C	From 0 to 55
Protection rating		IP65
Dimension of section	mm	50 x 60
Connections		Emitter : M12 – 5 pins Receiver : M23- 19 pins
Maximum length of cables	m	100 (between the barrier and the load)

Emitter connections

EMITTER SR40		
Number of pins	Name	DESCRIPTION
1	24VDC	Power supply (positive)
2	range / TEST1	Select test / range
3	0VDC	Power supply (negative)
4	range / test 2	Select test / range
5	PE	PE (Ground)

Receiver connections

RECEPTEUR SR4 O		
Number of pins	Name	DESCRIPTION
2	0SSD2	Safety output
3	OSSD1	
4	Signal	Low optical signal
6	0 VDC	Power supply 0 VDC
11	Activation EDM	Remote Activation of external monitoring
12	Terre	Connecting to the ground
13	Manu / Auto	Manual or automatic Mode
14	Restart	Restart input
18	Contact K1 K2 (EDM)	Contacts EDM
19	24VDC	Power supply + 24 VDC

Accessories

SWJ4MJB2	Box with Start/restart push button + 2 relays output and EDM.	SWJ0CJBR10	2 straight 19 pins M23 female connectors to link receiver to SWJ4MJB1, 10m cable .
SWH4ADSR1	Safety relay, with AUTO/MANU restart and EDM integrated functions	SWJ0CJBE10	2 straight 5 pins M12 female connectors to link transmitter to SWJ4MJB1, 10m cable
SWH4ADSR2	Safety relay, with AUTO/MANU restart and EDM integrated functions, with the possibility to connect two safety light barriers and another safety device like emergency push button, safety switch...	SGWELL	Set of 4 typ LL mounting brackets
SWJ0CJ5	Straight 19 pins M23 female connector for receiver, 5m cable.	SGWELH1	Set of 4typ LH mounting brackets
SX42WC5	Straight 5 pin M12 female connector , 5m cable	SWJ0CJ10	Straight 19 pins M23 female connector for receiver, 10m cable
SX42WC10	Straight 5 pin M12 female connector, 10m cable.	SWPS0	Post for fastening of the barrier or of a mirror SWMB♦♦
SWJ0CJBR5	2 straight 19 pins M23 connectors to link receiver to SWJ4MJB1, 5m cable .	SWMB♦♦	Deviation mirrors to be fixed on a wall or on a frame (possible assembly on posts SWPS0)
SWJ0CJBE5	2 straight 5 pins M12 connectors to link transmitter and SWJ4MJB1, 5m cable .	WAB4♦♦	Deviation mirrors to be fixed on a ground or a table.
SWH4LAD3	Laser alignments	SX42WVF16	Set of 6 fastening inserts
		SAWR02	Safety relays 24 VDC



Les produits présentés dans ce document sont susceptibles d'évolutions. Les descriptions et caractéristiques ne sont pas contractuelles.



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