



# SBCR03

## SBCR03/S-A0

Safety, Control Unit, no muting, Type 2  
CONTROL UNIT TYPE 2

## OVERVIEW

- Up to 6 sets of safety photocells M18 (SH4-IA) or M30 (TH6-IA) interconnectable
- DIN RAIL Mounting
- Body protection and access control
- Cat. 2 according to EN 61496-1
- Cat. 2 / PL c according to EN ISO 13849-1; SIL CL 1 according to EN 62061 / IEC 61508
- Models with single/double channel Muting and Override functions
- Response time less than 5 ms
- 2 OSSD outputs



## TECHNICAL FEATURES

### Detection properties

Nominal sensing distance	According to the sensors used: SH4/*-**IA up to 10m TH6/*-**IA up to 60m
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Effective Aperture Angle	n/a
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### Application

Function Principle	Control unit
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Available functions	Manual/Automatic Restart, EDM
Description	Compact standard
Max. number of sensors connected	6 x SH4_IA/TH6_IA pairs
State lamp output	1 x incandescent lamp (1 ... 10W, 24Vdc)
Functions	Safety Control Unit + muting

#### Safety parameters

Type	Type 2 safety control unit (A/M)
SIL	1
SILCL	1
PL	c
PFHd	1,00E-06
MTTFd	20 years

#### Outputs

Output type	2 x PNP-NO (OSSD safety output) with EDM
Response time	≤ 12 ms
Response Time (Test input)	≤ 30ms
Tempo di Risposta (Muting function)	≤ 270ms
Recovery time	≤ 50ms

## Electrical data

Operating Voltage	24 Vdc $\pm$ 20%
No-Load supply current	100mA
Load current	$\leq$ 500mA each output
Output voltage drop	2,5V @ 500mA
Cabel Length (Power Supply/Output)	$\leq$ 30m (cable section 0,5mm <sup>2</sup> ) $\leq$ 60m (cable section 2,5mm <sup>2</sup> )
Cable Length (sensors)	$\leq$ 100m (cable section 2mm <sup>2</sup> )
Ripple	$\leq$ 5%
Power Consumption	4W (without lamps/loads)

## Mechanical data

Dimensions	99 x 105 x 100mm
Housing Material	ABS UL VO
Connections	1 x terminals bar
Operating temperature	20°C ... +60°C (without freeze)
Storage temperature	-25...+ 70°C
humidity	15% ... 95% (no condensation)

## Test/Approvals

Approvals	CE, TÜV
Degree of protection	IP20

## Generical Data

Dimensions	99 x 105 x 100mm
Operating Temperature	20...+60°C (without freeze)
Humidity	15% ... 95% (no condensation)
Mechanical Protection	IP20

## CONNECTIONS

Electrical diagram



For the wiring diagram,  
consult the catalogue  
or manual.

## OTHERS

Dimensions

Image:

**Datasensing  
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