



WEBSITE

SBCR03

SAFETY DEVICE



SBCR03 SAFETY CONTROL UNITS

- 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



CODE DESCRIPTION

		SBCR03	/	S	-	A	0
series	SBCR03	Safety control unit for safety photocells					
power supply	S	24 Vdc operating voltage					
inputs	A	Suitable for safety photocells					
type	0	Standard model					
	M	Muting / Override model					

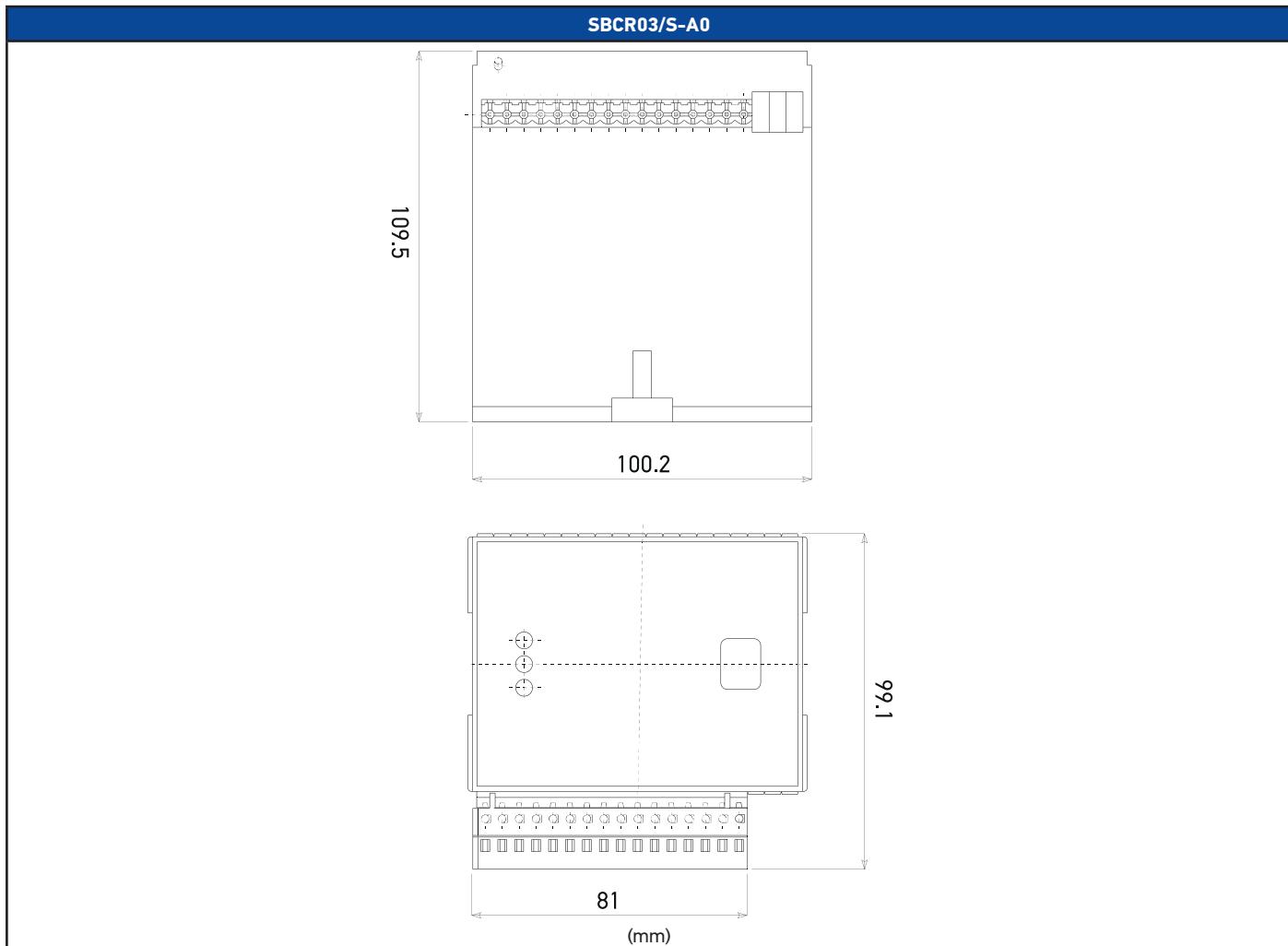
TECHNICAL SPECIFICATIONS

	SBCR03/S-A0	SBCR03/S-AM
GENERAL DATA		
Operating principle	Control unit	
Maximum number of connected sensors	6 pairs SH4_JA/TH6_JA	
FUNCTIONS		
Available functions	Manual/Automatic Restart, EDM	Manual/Automatic Restart, EDM, Muting, Double Muting, Override
Maximum number of muting sensors		4 PNP-NO
Muting lamp output		1 ... 10 W 2 incandescent lamp, 24 Vdc
State lamp output		1 ... 10 W 1 x incandescent lamp, 24 Vdc
SAFETY PARAMETERS		
Type	2 (EN 61496)	
Pl	c (EN ISO 13849-1)	
SIL	SIL 1 (IEC 61508)	
PFHd	1 x 10-6	
Mission Time (TM)	20 years	
INPUT/OUTPUT		
Output type	2 x PNP (OSSD safety output)	
ELECTRICAL DATA		
Supply voltage	24 Vdc ±20%	
Maximum No-load absorption	100 mA	150 mA
Power consumption	4 W Without lamps/loads	
Maximum DC output voltage drop	2.5 V @ IL=500mA	
Maximum DC load current	500 mA each output	
Recovery time (relay excitation)	≤ 50 ms	
Response time (muting function)	≤ 270 ms	
Response time (testing input)	≤ 30 ms	
MECHANICAL DATA		
Dimensions	99 x 105 x 100 mm	121 x 105 x 100 mm
Housing material	ABS UL VO	
Connections	Terminals 1 x terminals bar	Terminals 2 x terminals bar
Length of cables (Power)	30 m 30 with cable section 0.5 mm ² ; 60 with cable section 2.5 mm ²	
Cables length (sensors)	≤ 100 m cable section 2 mm ²	
ENVIRONMENTAL DATA		
Operating Temperature	-20 ... 60 °C (without freeze)	
Storage temperature max.	-25 ... 70 °C	
Mechanical Protection	IP20	
Humidity	15 ... 95 % no condensation	

AVAILABLE MODELS

Type	Detection capability	Nominal sensing distance	Response time	Model
2	Safety Control Unit + muting	According to the sensors used: SH4/*-**IA up to 10m TH6/*-*IA up to 60m	12 ms	SBCR03/S-A0 SBCR03/S-AM

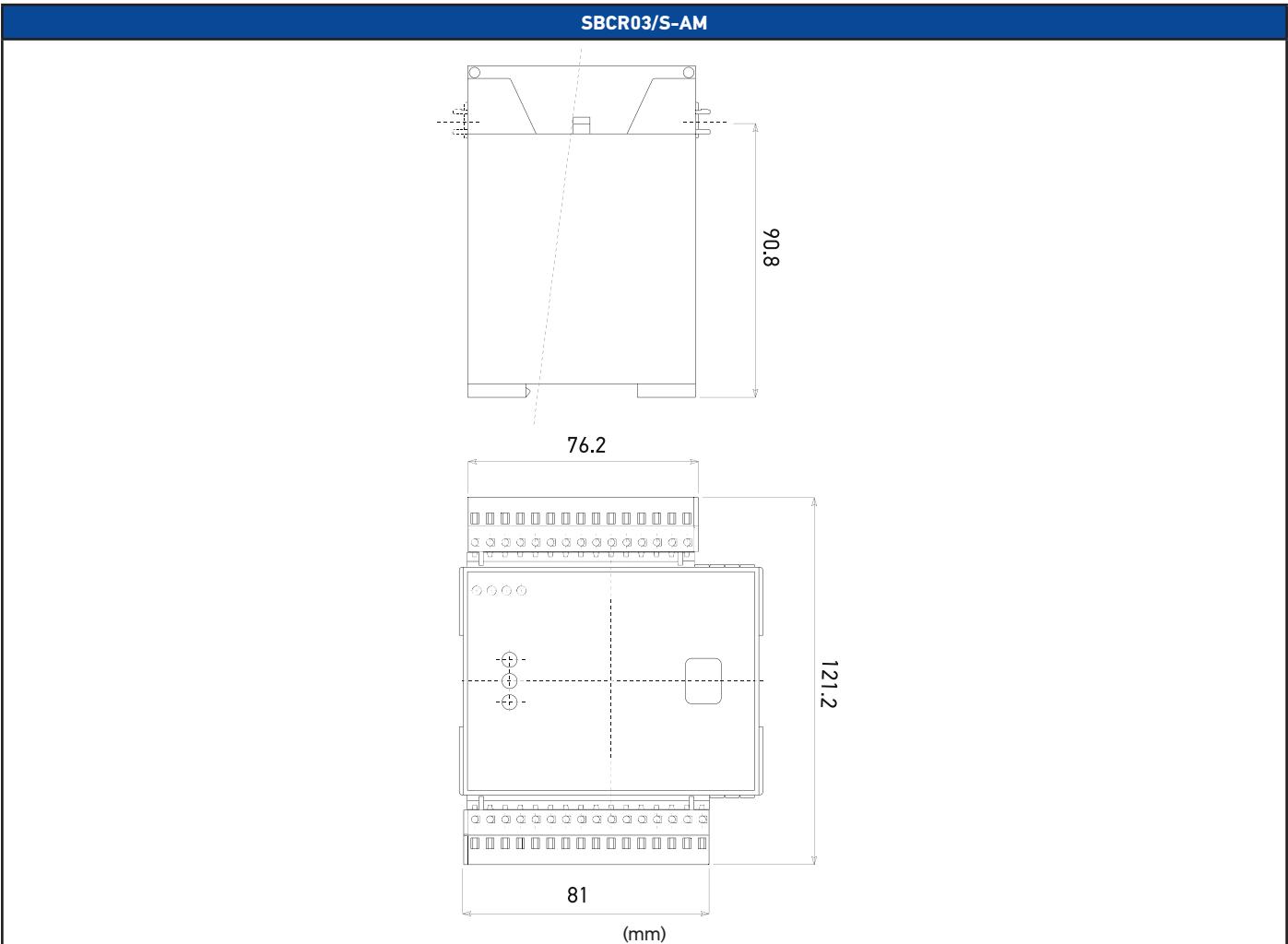
MECHANICAL DRAWINGS



MECHANICAL DRAWINGS

SBCR03

SAFETY CONTROL UNITS



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