

Safety Input Box SIB 061



with 6 safe inputs
1 double clock output signal (short circuit proof)

The Safety Input Box SIB 061 has the Safety integrity level SIL3 (EN / IEC 62061) or Performance-level e (PL e) (EN ISO 13849-1/-2). The Safety inputs are used for reading 6 actuator signals (Emergency Stop, confirmation button etc.).

To test inputs and detect crossed circuits (e.g. Emergency Stop), the SIB 061 has 2 non-safe signal outputs, TA and TB.

Input Specifications

Number	6	
Input voltage	+24 V DC	
Input voltage range	minimum +18 V	maximum +30 V
Signal level	low: ≤ +5 V	high: ≥ +15 V
Switching threshold	typically +13 V	
Input current	3 mA at +24 V	
Input delay	0.5 ms	

Signal Output Cross-Circuit Detection Specifications

Number	3x signal A	3x signal B
Rated output voltage	+24 V DC	
Output voltage range	minimum +18 V	maximum +30 V
Output current	100 mA at +24 V	
Miscellaneous	short-circuit proof	

Electrical Requirements

Supply voltage	+24 V DC
Supply voltage (UL)	+24-30 V DC (Class 2)
Supply voltage range	+18-30 V DC
Current consumption (+24 V power supply, own consumption)	typically 35 mA

CAN Bus

Baud rate	500 kBit/s
Max. cable length	80 m
Terminating resistor	120 Ω internal

Article Number and Miscellaneous

Article number	20-895-081
Dimensions	95.5 x 73.5 x 16 mm (W x H x D)
Standard	UL in preparation
Approvals	CE, TÜV Austria E6 type-tested

Environmental Conditions

Storage temperature	-20 ... +85 °C	
Environmental temperature	-10 ... +60 °C	
Humidity	0-95 %, non-condensing	
Installation altitude above sea level	0-2000 m without derating > 2000 m with derating of the maximum environmental temperature by 0.5 °C per 100 m	
Operating conditions	pollution degree 2	
EMC resistance	in accordance with 61000-6-7:2015 (Generic standards - Immunity requirements for equipment intended to perform functions in safety-related systems (functional safety) at industrial locations) in accordance with EN 61000-6-2:2007 (industrial area) (increased requirements in accordance with IEC 62061)	
EMC noise generation	in accordance with EN 61000-6-4:2007 (industrial area)	
Vibration resistance	EN 60068-2-6	3.5 mm from 5-8.4 Hz 1 g from 8.4-150 Hz
Shock resistance	EN 60068-2-27	15 g
Protection type	EN 60529	IP20