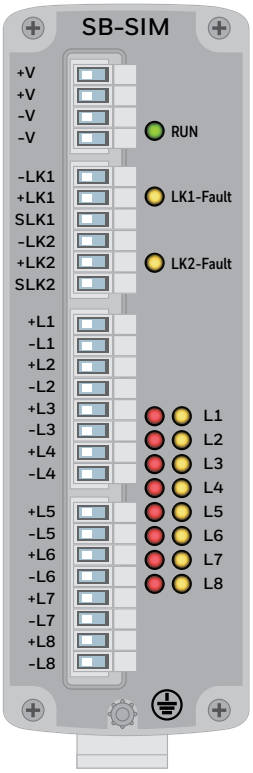
Honeywell
THE POWER OF **CONNECTED**

SB-SIM Module

The Safety Bus system allows the Fire and Fire & Gas detection and the firefighting control in a unique bus assuring a high safety level. The system is composed by one or two control cards, that are integrated in the panel S81-HS, and up to 64 addressable remote modules installed in the field. The communication between the control cards and the addressable modules is based on an enhanced safety version of CAN protocol (Controller Area Network) with ring architecture to guarantee the best functionality in fault condition and high communication speed.

This module can control eight supervised inputs for conventional sensors or detectors with safety-related functions. All the channels can be individually reset and are tested every 30 seconds during operation. It is used to control conventional fire detectors and NO/NC contacts in general. Both communication links are provided with short circuit isolator.



FEATURES & BENEFITS

- Wide area coverage
- Easy addition of IO in existing system
- SIL 2/3, UL, EN, Atex approved installations
- Large capacity of 64 modules/ loop
- Redundant network
- Available with weather proof and explosion proof housing

Visual Indications

The front panel of the module features 19 LEDs that indicate the following conditions:

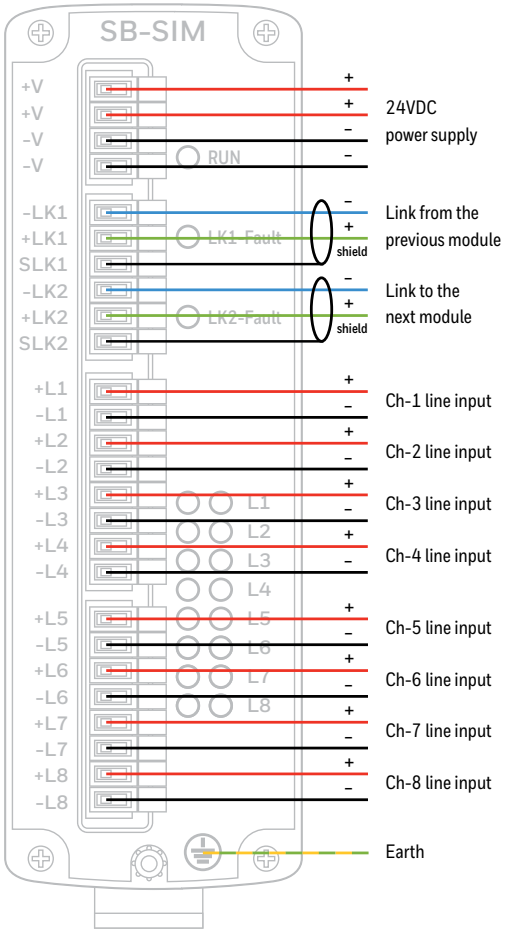
TAG	COLOR	MODE	CONDITION
RUN	Green	On Solid	Normal operation
		Off	Module failure or no power
LK1-FAULT	Yellow	Off	Communication on Link LK1 present
		Blinking	Link LK1 towards board interrupted
		On Solid	Communication failure on Link LK1
LK2-FAULT	Yellow	Off	Communication on Link LK2 present
		Blinking	Link LK2 towards board interrupted
		On Solid	Communication failure on Link LK2
L1-L8	Red	Off	Channel in normal state
		Blinking	Channel in pre-alarm
		On Solid	Channel in alarm
L1-L8	Yellow	Off	Channel in normal state
		Blinking	Channel fault (module or line)
		On Solid	Channel disabled

Note:
During the startup sequence, the yellow and red LEDs blink 3 times, then the seven red LEDs L1-L7 will go on for 2 seconds to indicate the module address in binary format (L1=1, L2=2, L3=4, L4=8, L5=16, L6=32, L7=64).

At this point, the eight yellow LEDs L1-L8 will begin to blink rapidly until the module is configured by the panel.

SB-SIM Module Technical Specifications

APPLICABLE SAFETY CATEGORY	Up to SIL3
NUMBER OF INPUT CHANNELS	8 individually configurable
ALARM THRESHOLD	2 programmable thresholds from 4 to 120mA
SHORT-CIRCUIT THRESHOLD	Programmable from 4 to 131mA
OPEN CIRCUIT THRESHOLD	1mA
CHANNEL TEST	Performed every 30 seconds
POWER SUPPLY VOLTAGE	22-28VDC
CURRENT CONSUMPTION IN STAND BY	115mA
OPERATING TEMPERATURE	-30 / +70 °C
STORAGE TEMPERATURE	-55 / +85 °C
MAX HUMIDITY	0-95% non condensing
PROTECTION RATING	IP30
MOUNTING	T35 DIN rail
DIMENSIONS	53 x 167 x 100 (W x H x D mm)
WEIGHT	Approx. 600g
CONNECTIONS	2.5mm² removable terminal blocks
MAX DISTANCE BETWEEN TWO MODULES	500m



Agency listings and approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult the factory for the latest listing status.

UL Listed UL 864 UL 2017:	File No.: S24857
EN-54 -17, EN 54-18:	File No.: 0051-CPR-0449
SIL 2/3 Certified:	File No.: 16-SIL-0010017-02-TIC
	Agency: TUV

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