

Desigo[®] Fire Safety Modular System

Supervised Input Module Model SIM-16

Architect & Engineer Specifications

- ☐ Provides 16 general-purpose inputs for remote sub-systems' monitoring
- ☐ Each input separately programmable for supervision or no supervision
- ☐ Provides two (2) 'Form C' relays
- ☐ Input circuits are power-limited
- ☐ Mounts remotely from fire alarm control panel (FACP)
- ☐ Programmable input circuit usage ('Alarm' | 'Trouble' | 'Supervisory' | 'Security' | 'Status')
- ☐ UL864 & CAN / ULC-S576 Listed

Product Overview

The Supervised Input Module (Model SIM-16) is a remotely located, general-purpose input module that provides 16 input circuits for remote system monitoring. Each input can be individually programmed as supervised (dry-contact only) or unsupervised (general-purpose input.) Model SIM-16 has two (2) 'Form C' relays. The relays and inputs are programmed using the Zeus-D custom-configuration tool.

Specifications

Model SIM-16 is mounted in an enclosure that is remotely located from the main Desigo Fire Safety Modular FACP. Communication between Model SIM-16 and the Network Interface Card (Model NIC-C) is through the Control Area Network (CAN) bus. Up to 99 Model SIM-16 modules can be used with a single Model NIC-C card.

Each Model SIM-16 has two (2), 10-position rotary switches that are used to set the board address on the CAN which is a sub-address of Model NIC-C.

Additionally, each Model SIM-16 supervised input circuit can function at a maximum length of 500 feet (152.4 meters).

Every time a change of state of the input is detected, a unique, CAN message is sent to Model NIC-C. A CAN message from Model NIC-C directed to Model SIM-16 controls the 'Form C' relays.

Model SIM-16 may be installed in a Model REMBOX2 or Model REMBOX4 or in other UL 864-Listed enclosure. If using Model REMBOX2 or Model REMBOX4, mount Model SIM-16 in one (1) module space on a Model REMBOX2-MP or Model REMBOX4-MP, via the four (4) screws provided.

Up to four (4) Model SIM-16 modules will fit in a REMBOX2, and up to eight (8) Model SIM-16 modules will fit in a given REMBOX4. Each Model SIM-16 input module fits into a single System 3™ module footprint.



Model SIM-16
Supervised
Input Module



Temperature and Humidity Range

Products are UL 864 10th Edition Listed for indoor dry locations within a temperature range of 120⁺/-3°F (49⁺/-2°C) to 32⁺/-3°F (0⁺/-2°C) and a relative humidity of 93⁺/-2% at a temperature of 90⁺/-3°F (32⁺/-2°C).

Electrical Ratings

24V CURRENT DRAW [Back Plane]	0
24V CURRENT DRAW [Screw Terminal]	20mA + 1.2mA, Supervised Input + 20mA, Active relay
6.2V CURRENT DRAW [Back Plane]	0
24V CURRENT DRAW [Standby]	20mA + 10mA, per: + 1.2mA, Supervised Input + 20mA, active relay
OUTPUT POWER	
CAN NETWORK PAIR	8V, peak-to-peak, max
	75mA, max. (during message transmission)

Details for Ordering

MODEL OR TYPE	PART NUMBER	PRODUCT
CCL	599-634214	CAN CABLE 3ft. (0.9m) Long, Required
SIM-16	500-034060	Supervised Input Module
REMBX2	500-633772	Small Lobby Enclosure
REMBX4	500-633914	Medium Lobby Enclosure

NOTICE – The information contained in this data-sheet document is intended only as a summary, and is subject to change without notice. The product(s) described here has/have a specific instruction sheet(s) that cover various technical, limitation and liability information. Copies of install-type, instruction sheets – as well as the *General Product Warning and Limitations* document, which also contains important data, are provided with the product, and are available from the Manufacturer. Data contained in the aforesaid type of documentation should be consulted with a fire-safety professional before specifying or using the product.

Any further questions or assistance concerning particular problems that might arise, relative to the proper functioning of the equipment, please contact the Manufacturer.

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