

S81-F7012-1-UL

System Sensor Loop Control Card, UL-Listed

General

The S81-F7012 card controls one SLC loop with System Sensor devices, such as smoke detectors, heat detectors, multi-criteria detectors, control modules, monitor modules, and pull stations. Each loop operates in the CLIP polling protocol and is capable of supporting 99 addressable modules and 99 addressable detectors (any combination of modules and detectors) for a total of 198 points per loop.

LED Indicators on Card

LED	Status	Indication
ACTIVE	⊗	One or more inputs in alarm or active condition
DISABLED	⊗	One input or output disabled
FAULT	∅	Fault condition
LOOP FAULT	∅	Loop short circuit or opening
LOG ON FAULT	∅	Discrepancy between read and expected devices
SERVICE	∅	Optical smoke detector(s) dirty
TX POL.	∅	Data transmission to devices on loop
RX POL.	∅	Data receipt from devices on loop
LED status legend:		⊗= on ; ∅= blinking

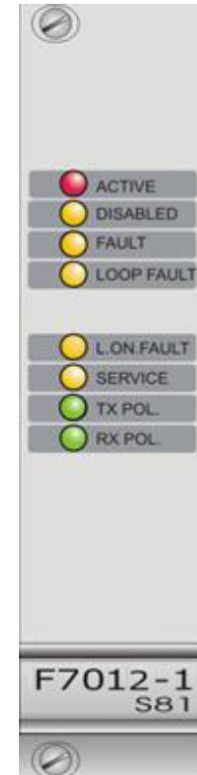
Operation

Through two connection and feeder cables, the card communicates with all devices connected on the loop, periodically polling them or receiving calls (interrupt) from the devices that have detected a status variation.

Alarming occurs after the information has been processed, through specific algorithms for the devices; e.g. smoke detectors can provide dynamic alarm thresholds that adjust themselves to compensate for optic sensing element contamination.

Connection Via Plug Cable


Connection between the card and the field is carried out by means of a special cable, provided with a plug-in connector at one of its ends. Cable conductors are wired directly onto a marshaling terminal block, while the connector is plugged into the back of the rack.



FEATURES

- Non redundant due to serial communication protocol
- Can be hot-swapped: removed and replaced without powering off the panel
- 99 addresses for detectors and 99 addresses for modules operating in CLIP protocol
- Loop connection (farthest point at 1500 meters)
- Selectable detector sensitivity
- Controls UL 864-certified devices such as:
 - Multi-criteria detectors (smoke/heat/CO)
 - Short-circuit isolators
 - Addressable smoke detectors
- Addressable heat detectors
- Addressable monitor modules
- Addressable control modules
- Periodic functionality self-test of card and all connected devices
- SMD technology multilayer circuit
- Front plug-in on 19" rack, with locking screws

Function		Connection with PLUG CABLE	
Loop out +	+	1	White
Loop out -	-	2	Brown
Loop in +	+	3	Green
Loop in -	-	4	Yellow
--		5	
--		6	
--		7	
--		8	



CCT4

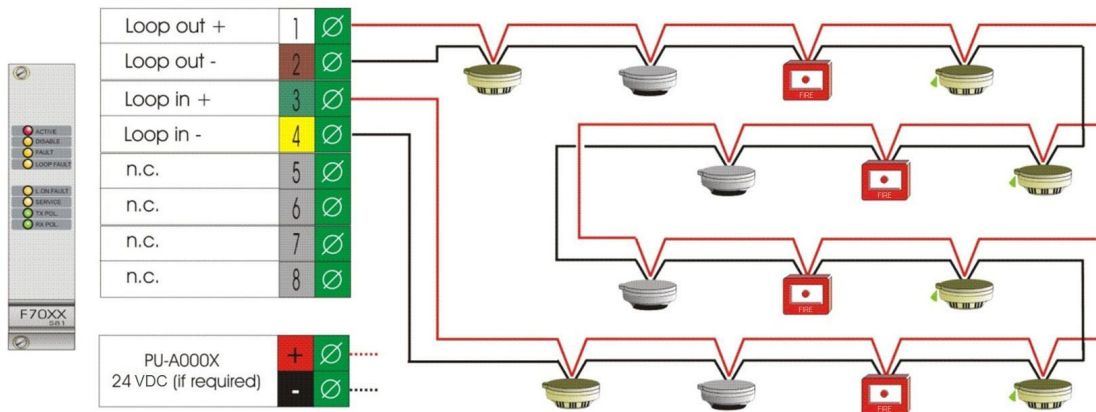
Connection Example

The connection between the card and devices takes place through two wires (positive and negative line) which return to the tab forming a ring. This connection is allowed if the devices do not exceed the maximum current allowed for the

loop. In case the device requires a separate power supply, this will consist of a further connection of two conductors to carry the positive and negative of the 24 VDC.

System Sensor® is a registered trademark of Honeywell Inc.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.



Compatible Devices

- **2251B** Photoelectric Smoke Detector
- **2251BR** Photoelectric Smoke Detector for use with DNR(W) Duct Detector
- **5251B** Fixed Temperature Thermal Detector
- **5251H** High Temperature Thermal Detector
- **5251RB** Rate-of-rise Thermal Detector
- **2251TB** Photoelectric Smoke Detector with Thermal
- **2251TMB** Acclimate Multi-Criteria Smoke Detector
- **2251-COPTIR** Advanced Multi-Criteria Fire Detector
- **HON-12LX** Pull station
- **M502M** Zone Interface Module
- **M500M** Monitor Module
- **M501M** Mini Monitor Module
- **M500DM** Dual Input Monitor Module
- **M500R** Relay Module
- **M500S** Control Module
- **SC-6** Six Supervised Control Module
- **CR-6** Six Relay Control Module
- **CZ-6** Six Conventional Zone Interface Module
- **IM-10** Ten Input Monitor Module
- **ISO-6** Six Isolator Module
- **M500X** Isolator Module
- **B200SR** Sounder Base
- **M500R** Relay Module

For more information

www.industrialfire.honeywell.com

Honeywell

12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.honeywell.com

HI-60964 | A | 03/17
©2017 Honeywell International Inc.

Honeywell