



G015454

Loop M X

Part no. 5100025, 5100026

System: TERRA FIRE

General Description

Loop M X is a module with one addressable loop interface handling up to 254 loop devices. Status indicators are visible in the front.

Loop features

- Independent CPU operation.
- Frequency-shift keying (FSK) wave technology.
- Galvanic isolation separates the loop from the system power supply.
- Dual Short Circuit Isolators (DSCI).
- Service interface for PC monitoring.
Refer to the Loop M dongle datasheet.

For details on assembling a system and definitions of common system terms, refer to the Installation Manual.


Item configuration

Item	Part name	Part no.
1 & 2	Loop M X module (fully assembled)	5100026-03A
1 + 2	Loop M X module (delivered as two parts)	5100026-01A
1	Spare part: PCB module	5100025-04A
2	Spare part: Housing	5100102-01



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Data

Operating voltage range	19-30 VDC
Loop driver voltage	34-38 VDC
SRTP limit voltage	27-29 VDC
Current consumption (at 24V, no loop units connected)	55 mA
Max continuous output current	400 mA**
Max no. of loop units	254
Cable terminals	2.5 mm ²
Operating temperature range	-5°C to +50°C **
Weight (with housing)	135g ±5%
Certified according to	 2531-CPR-232.1686 DOP no. 6301900

** The max continuous output current limit only applies to CCP Fire version 1.14.0. For earlier software versions, max continuous output current limit is set to 250 mA which result in operating temperature -5°C to 55°C.

Accessories

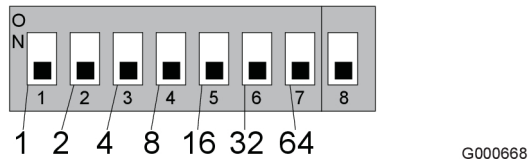
Terminal connector, spring type	5100106-01B
Loop M dongle	5100178-00A

Settings

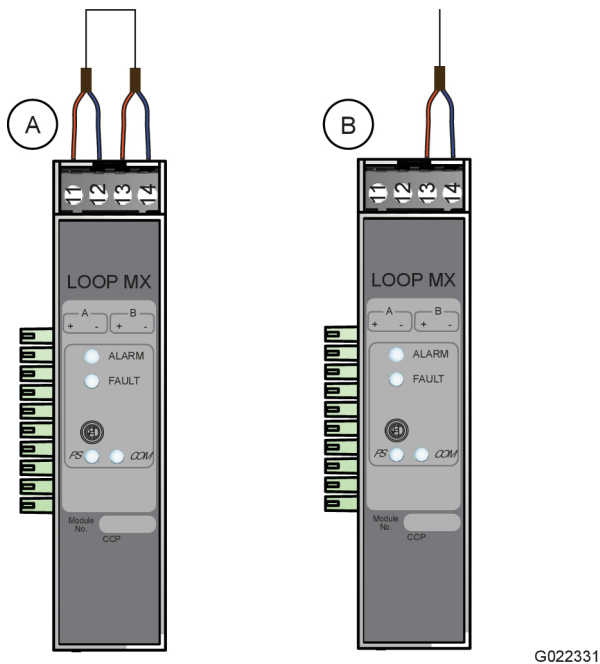
The module is identified by a physical address on the Backbone Bus. The address is set with an 8-pole DIP switch.

Address switch

The DIP switch value follows the binary system. The address no. can be set using DIP-switch poles 1 to 7. The address selected on the DIP-switch must correspond to the settings in the configuration program.



Connections



A) Loop connection

B) SRTP connection

Indicators

Indicators on detectors

In order to decrease current consumption on the loop, the number of detectors with steady light LEDs are restricted to four.

If more than four detectors on the loop detects fire, only the first four detectors will indicate fire with steady light LEDs and the rest will indicate fire with blinking LEDs.

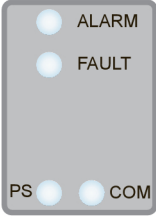
The Loop M X module remembers in which order the detectors detected fire, so if a fire alarm in a detector is reset the next detector that detected fire will switch from blinking light to steady light.

Indicators on Loop M X module

Loop M X indicators show fire, fault, and system status.

**NOTE!**

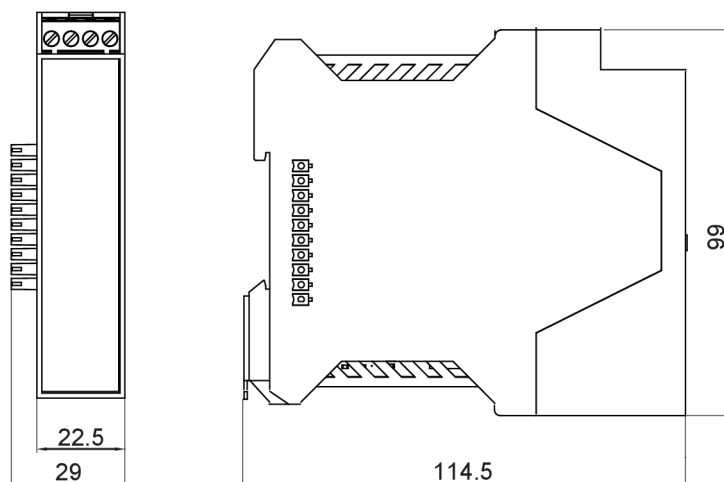
If all LED's are flashing the DIP switches are set to zero or all are set to ON.
Please set the correct address.

Front label	Indicator	Colour, pattern	Module status
 <p>G000751</p>	ALARM	Red, steady	One or more alarms are present
		Red, flashing	Pre-alarm
		None	There are no alarms
	FAULT	Yellow, steady	One or more faults are present
		Yellow, flashing	Booting or Rescan
		None	There are no faults
	PS (Power Supply)	Green	OK
		Yellow, steady	Power Fault
		Yellow, flashing: 0.5 sec On, 0.5 sec Off.	Boot loader mode
		Yellow, flashing: 1 sec On, 0.5 sec Off.	Safe State
	COM (Communication)	Green, steady	OK
		Green, flashing	Unconfigured (Communication working)
		Yellow, steady	Faulty communication
		Yellow, flashing	Major fault
		None	No communication
	PS + COM (both flashing)	PS Yellow, flashing	Transferring software
		COM Green, flashing	

Mounting

Mount the module on a horizontal 35 mm DIN rail.

Dimensions (mm)



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