



G015454

# Loop M X

Part no. 5100025, 5100026

System: TS1000, CFD500 T

## 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  |



G015453

## 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                         | 250 mA  |
| Max no. of loop units                                 | 254   |
| Communication parameters for the detector loops       | FSK keying*   |
| Cable terminals                                       | 2.5 mm <sup>2</sup>   |
| Operating temperature range                           | -40°C to +85°C (Tx)   |
| Weight (with housing)                                 | 135g ±5%  |
| Certified according to                                | EN 50155<br>EN 45545-2<br>See separate document for approvals and certifications. |

\* Communication method to provide long communication lines immune to external interference in harsh environments.

### Accessories

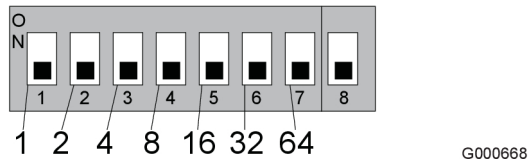
|                                 |             |
|---------------------------------|-------------|
| Terminal connector, spring type | 5100106-01B |
| Loop M dongle                   | 5100178-00A |

## Settings

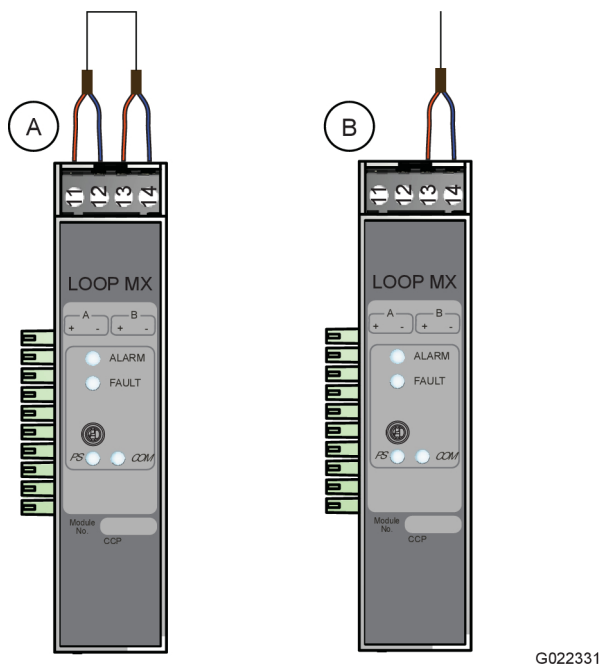
The module is identified by a physical address on the Backbone Bus. The address is set with an 8-pole DIP switch.

### 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.

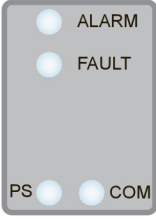
The Loop M X module remembers in which order the detectors detected fire, so if a fire alarm in a detector is reset the next detector that detected fire will switch from blinking light to steady light.

### Indicators on Loop M X module

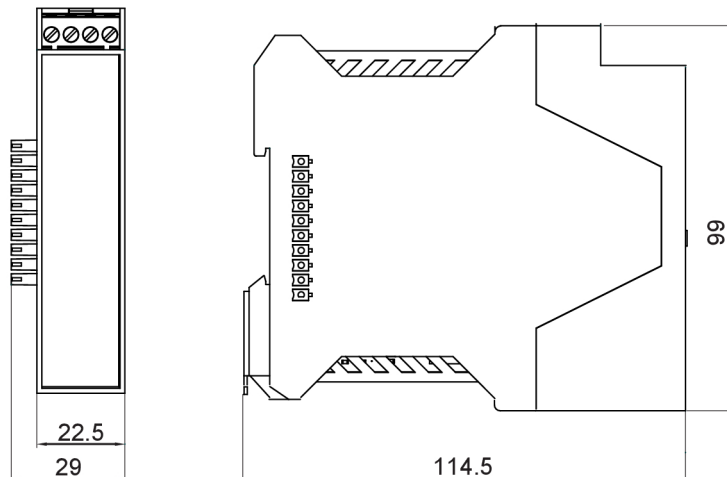
Loop M X indicators show fire, fault, and system status.

**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                        |
|--|-----------------------------|---|--------------------------------------|
| <br>G000751 | 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<br>(Power Supply)        | Green   | OK                                   |
|  |                             | Yellow, steady                                | Power Fault                          |
|  |                             | Yellow, flashing:<br>0.5 sec On, 0.5 sec Off. | Boot loader mode                     |
|  |                             | Yellow, flashing:<br>1 sec On, 0.5 sec Off.   | Safe State                           |
|  | COM<br>(Communication)      | Green, steady                                 | OK                                   |
|  |                             | Green, flashing                               | Unconfigured (Communication working) |
|  |                             | Yellow, steady                                | Faulty communication                 |
|  |                             | Yellow, flashing                              | Major fault                          |
|  |                             | None  | No communication                     |
|  | PS + COM<br>(both flashing) | PS<br>Yellow, flashing                        | Transferring software                |
|  |                             | COM<br>Green, flashing                        |                                      |

## Dimensions (mm)



G000253

## Mounting

Mount the module on a horizontal 35 mm DIN rail.