MINERVA® MX

MX Loop Powered Beam Detector Module (BDM800)

Features:

- Powers Beam Detectors directly from the MX Digital Loop
- Reduces wiring and installation costs
- Monitors Beam Detectors for Fire and Fault
- Monitors interconnections for open and short circuit faults
- LPCB and VdS Approved
- Can be installed to BS5839 Part 1:2002
- Onboard LED indicates polling and activation
- May be used with the MINERVA® FireRay 50R and 100R reflective beam for greater savings on installation
- Compatible with the MINERVA® FireRay 2000 beam detector
- Optional BTM800 beam termination module to further simplify installation
- Supplied fitted to a standard double gang ancillary front cover

Beam Detector Module (BDM800)

The BDM800 Beam Detector Module is designed to interface the MINERVA® FireRay 50R/100R/2000 Beam Detectors to the MX Digital Addressable Loop. The BDM800 provides power from the loop, monitors the Fire and Fault Relay Contacts of the detector and also monitors the wiring to the detector for open and short circuit faults.

The BDM800 can be used to power the complete MINERVA® FireRay 2000 system (via the loop) or just the control and receiver units with a second BDM800 used to power the transmitter unit. Up to Thirteen BDM800's driving MINERVA® FireRay 50R/100R/2000 beam detectors can be connected to a single loop.

Beam Termination Module (BTM800)

For remote siting of the MINERVA® FireRay 50R/100R/2000 from the MX Digital Addressable Loop an optional BTM800 Beam Termination Module can be used.

This module simplifies the wiring between the detector and the BDM800 by utilising a standard 4 core cable between the BDM800 and BTM800 with simple one to one wiring between the detector and the BTM800.

Technical Specifications

Mechanical

Dimensions (HxWxD):	87 x 148 x 14 mm (BDM800)
	87 x 148 x 14 mm (BTM800)
Approx. Weight:	100g (BDM800)
	100g (BTM800)

Environmental

Operating Temperature:	-10oC to +55°C
Storage Temperature:	-40°C to +80°C
Relative Humidity:	up to 95% RH (non condensing)
EMC/RFI:	EN50130-4
	EN61000-6-3

Electrical

Battery Requirements : Powered from Addressable Loop

MINERVA® FireRay 2000 Transmitter

Standby: 6mA Max

MINERVA® FireRay 2000 Receiver

Standby: 14mA Max

Alarm: 21mA Max

MINERVA® FireRay 2000 Transmitter/Receiver

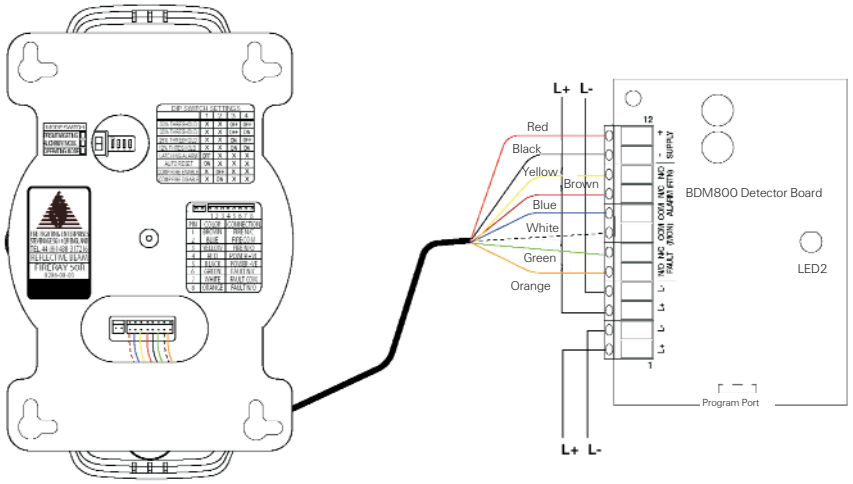
Standby: 14mA Max

Alarm: 21mA Max

MINERVA® FireRay 50R/100R

Standby: 5mA Max

Alarm: 16mA Max



MINERVA® Fireray 50R/100R Simplified Wiring Diagram

Ordering Information

Stockcode	Description
555.800.066	BDM800 Beam Detector Module
555.800.067	BTM800 Beam Termination Module
516.015.006.A/T	MINERVA® FireRay 2000 Beam Detector
516.015.011	MINERVA® FireRay 50R Beam Detector
516.015.012	MINERVA® FireRay 100R Beam Detector

For further information on how we can help you, please visit our website at www.tycofis.com or e-mail us on tfis.fda.uk@tycoint.com.

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