LOAD CONNECTION MODULE
MPN

ИСО 9001

INSTRUCTION MANUAL

1 TECHNICAL INFORMATION

1.1 General

1.1.1 MPN Load Connection Module is designed for connecting sound and like alarms, agent storage containers, solenoid valves, interface relays, and other control appliances to monitored outputs of control devices in fixed fire-fighting systems.

1.1.2 The MPN is to be used along with such devices as Bolid manufactured S2000-ASPT, S2000-KPB, Signal-20P, and Signal-20M which provide monitoring the control lines of executive devices in fire alarm and fire extinguishing systems as well as in emergency voice alarm communication systems.

1.1.3 The MPN is not designed to be used in aggressive and dusty environments or in fire and explosion hazard premises.

1.2 Specifications

1) Maximum operating voltage: 50 V.
2) Maximum load current: 1 A.
3) Maximum control current: 0.1 A.
4) Cross-sectional area of wires to be connected: 0.2 sq mm.
5) Operating Temperatures: minus 30°C to +55°C.
6) Ingress Protection Rating: IP30.
7) Overall Dimensions (w/o connection wires): 20 mm × 10 mm × 7 mm.
8) Weight: 5 gram max.
9) The content of precious materials: no need to account for the storage, disposal and recycling.

1.3 Standard Delivery

1) MPN Load Connection Module – 10 pcs.
2) Instruction Manual – 1 copy

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2 OPERATION DIRECTIVES

2.1 The schematic and view of the MPN are shown in Figure 1.

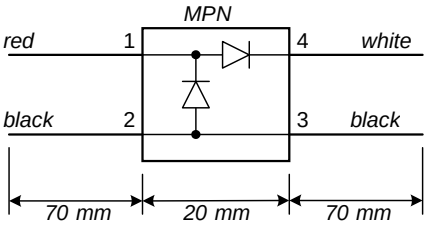
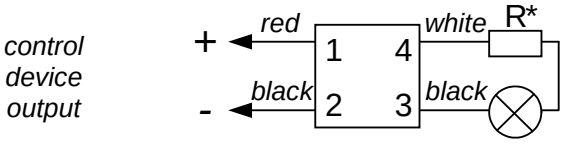


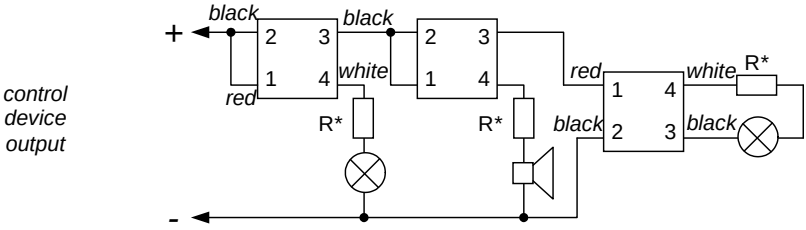
Figure 1. The Schematic and the View of the MPN

2.2 Connection Diagrams for the MPN

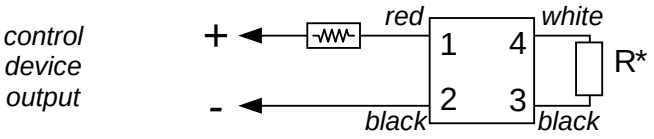
2.2.1 Connecting a single alarm:



2.2.2 Connecting several alarms:



2.2.3 Connecting an agent storage container:



Where:

R* is for a current-limiting resistor (the resistance is estimated based on the maximum load current of the output of the control device).

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2.3 Mounting the Module

2.3.1 The MPN shall be installed directly on the terminals of a control appliance or within a junction box located as close to the control appliance as possible. This will provide monitoring the line from the output terminals of the control device to the point of connection of the control appliance.

2.3.2 If an output of the control equipment is not in use, this output can be terminated. For doing so, connect it with an MPN with an additional resistance (of 2 k to 5 k, ¼ W) which is brought between the white wire and the black one.

2.3.3 While mounting the module please observe connection polarity and color coding of the wires.

2.3.4 While connecting the module, twisting wires together is not acceptable.

3 MANUFACTURER WARRANTY

3.1 The manufacturer guarantees that the MPN meets technical requirements specified in the manuals if the user follows the instructions for shipment, storage, installation, and usage.

3.2 The average life time of the product is 10 years minimum.

3.3 Warranty period is 18 months but no more than 24 months from the manufacturer's date of issue.

3.4 The MPN is related to irreparable and unserviceable products.

Claims shall be submitted to: NVP BOLID CJSC,

#4 Pionerskaya Str., Korolyov city, Moscow region, Russia, 141070.

Tel./fax: +7 **(495) 775-71-55** (PBX), **777-40-20**, **516-93-72**.

E-mail: info@bolid.ru. Technical support: support@bolid.ru.

http://bolid.ru.

4 CONFORMITY CERTIFICATE

4.1 Production of load connection modules MPN is certified according to GOST ISO 9001-2011 by a conformity certificate No.РОСС RU.ИК32.К00153.

5 PRODUCT ACCEPTANCE CERTIFICATE

5.1 MPN load connection modules are manufactured and accepted in accordance with mandatory requirements of state standards and current technical documentation, qualified as proper for operation and packaged by CJSC NVP “Bolid”.

Responsible for acceptance and packaging

QCD _____ _____

Full Name Date, Month, Year

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