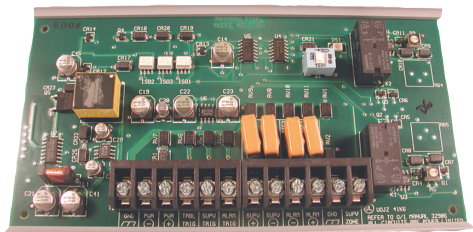


D185 Reverse Polarity Signaling Module

www.boschsecurity.com



- ▶ UL Listed for NFPA 72 remote station applications
- ▶ Adjustable alarm and supervisory output current
- ▶ Alarm activation delay
- ▶ System test mode with LED indicator
- ▶ Easy installation

The D185 Reverse Polarity Signaling Module communicates system conditions (alarm, trouble, and supervisory) from a compatible control panel to a monitoring station by reversing or interrupting the polarity of a steady signal it sends over leased telephone company (telco) lines. The module operates over one or two pairs of lines and with either a 12 VDC or 24 VDC supply. All circuits are power limited.

Functions

Operation on Telco Phone Lines Operation on a Single Pair of Telco Lines

If a single pair of telco lines is connected, the module signals an alarm condition by reversing the polarity of the telco output. It responds to a trouble condition by interrupting the current of the telco output. If the module receives an alarm signal when it is in a trouble condition (current interrupted), it restores current and reverses polarity. The alarm output has a 20 sec delay (\pm five seconds).

Operation on Two Pair of Telco Lines

If a second pair of telco lines is connected, the module signals a supervisory condition by reversing the polarity of the supervisory output. The current

received at the monitoring station is adjusted by signal adjusters on the module board, one for the alarm and trouble output and one for the supervisory output.

Test Mode

The switch-activated test mode indicates a trouble condition at the control panel and a trouble condition at the monitoring station. The test mode is shown on the module board by a light-emitting diode (LED).

Easy Installation

Mounting the D185 in existing systems is simple with snap-track installation.

Certifications and approvals

Complies with NFPA 72

Region	Certification	
USA	UL	UOJZ: Control Units, System (ANSI/UL 864) and UOXX: Control Unit Accessories, System (ANSI/UL 864)
	FM	D185
	CSFM	see our website
	FDNY-CoA	#6173

Region	Certification	
	FDNY-CoA	#6174 UL 864 9th Edition
	NYC-MEA	12-92-E, Vol. 12
	NYC-MEA	12-92-E, Vol. 14
	NYC-MEA	12-92-E, Vol. 15

Installation/configuration notes

Compatibility Information

The following Bosch control panels are compatible with the module:

Active:

FPD-7024 panel

G Series (GV2 and higher) panels¹

Legacy:*

D7024 panel

G Series (prior to GV2) panels²

D9412, D7412, and D7212** panels

DS9400 panel

¹ G Series (GV2 or higher) = GV4 (D9412GV4, D7412GV4, and D7212GV4**), GV3 (D9412GV3, D7412GV3, and D7212GV3**), and GV2 (D9412GV2, D7412GV2, and D7212GV2**) panels

² G Series (prior to GV2) = D9412G, D7412G, and D7212G** panels

* Legacy products were investigated to comply only to UL864 8th edition.

** indicates products which are not UL listed for commercial fire applications.

The following Bosch relays are compatible with the module:

D275 End-of-Line Module

PAM-4 Relay Module

Mounting Considerations

The D185 mounts on a supplied snap-track and installs in the FACP enclosure or in a separate, adjacent enclosure connected to the FACP by conduit or other protection against wiring damage. The snap-track is slotted and drilled for quick installation.

Wiring Considerations

The D185 has twelve screw terminal connection points. The six on the left side are input points; the six on the right side are module output points. The screw terminals accept wires with diameters between 22 AWG (0.5 mm) and 12 AWG (2.3 mm).

Parts included

Quant.	Component
1	D185 module
1	Snap-Track to fit module
1	Literature pack

Technical specifications

Environmental Considerations

Environment:	Indoor, dry
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Input (alarm, supervisory, and trouble)

Current:	2.25 mA to 8.1 mA
Voltage (nominal):	12 VDC or 24 VDC

Mechanical Properties

Alarm Activation Delay:	20 ± 5 sec
Dimensions (W x H):	5.875 in. x 3 in. (15 cm x 7.6 cm)

Output

Current Adjustment Range:	2.5 mA to 15 mA
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Power Requirements

Current Draw (alarm):	12 VDC: 300 mA; 24 VDC: 143 mA
Current Draw (idle):	12 VDC: 245 mA; 24 VDC: 120 mA

Ordering information

D185 Reverse Polarity Signaling Module

This module's three input terminals accept alarm, trouble, or supervisory input from a control panel. The module transmits this information over either a single set or a pair of leased telco lines to a monitoring station. This module operates with either a 12 VDC or 24 VDC supply.

Order number **D185**

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