Discovery

Manual Call Point

Product overview

Product	Discovery Manual Call Point (surface)
Part No.	58100-910SIL
Product	Discovery Manual Call Point (surface) with Isolator
Part No.	58100-908SIL
Product	Hinged cover
Part No.	26729-152
Product	Security ties (pack of 5)
Part No.	26729-179
Product	Discovery MCP replacement glasses (pack of 5)
Part No.	26729-155

Approvals

SIL2

Technical Data

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C, and 50% RH unless otherwise stated.

Call point type	*Deformable element*
Call point principle	*Operation of a switch*
Alarm indicator	*Red light emitting diode (LED)*
Fault indicator	*Amber/Yellow LED*
Supply wiring	*Two-wire supply, polarity sensitive*
Loop connections	*Terminal block L1 -ve/L2 +ve*
Supply voltage	*17 - 28 V dc*
Quiescent current	*100 µA*
Power up surge	*1 mA*
Maximum power-up time	*One second*
Communications protocol	*Discovery 5 - 9 V peak to peak*
Alarm current, LED illuminated	*4 mA*
Normal analogue value	*16*
Alarm state value	*64*
Operating temperature	*-20°C to 60°C*
Humidity (no condensing or icing)	*0% to 95% RH*
Standards and Approvals	*EN 54-11, EN 54-17 (isolated version) IEC 61508-1, 2*
IP rating	*IP24D*
Dimensions	*89mm wide x 93 mm high x 26.5 mm depth*
Weight	*110 g (flush mounted) 160 g (surface mounted)*
Materials	*Fire retardant polycarbonate*

Product information

The Discovery Manual Call Points (MCP) have been designed for use in areas where SIL approved devices are required.

- Resettable operating element
- Easy access, front reset mechanism
- Ergonomic reset key and keyring hole
- Front facing accessible addressing for commissioning
- E-Z fit first fix terminals for installation (indoor only)
- Flashing polling LED option
- EN 54 -11 and EN 54-17 Certified
- 170° viewable LED indicator

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Operation

The address of each Discovery Manual Call Point (MCP) is set at the commissioning stage by means of a seven-segment DIL switch. If a MCP is activated, it interrupts the normal protocol to give a fast response.

A single bi-coloured alarm LED is provided on the call point. This LED is controlled, independently of the call point, by the control panel and may be set to flash each time the call point is polled. The red LED is lit when the call point has been activated and sent into alarm. On the isolated versions an amber/yellow LED indicates a short-circuit on the loop wiring either side of the call point.

Call points can be remotely tested from the panel by transmission of a single bit in the communications protocol. Call points respond by providing a value of 64 which corresponds to the alarm value. The panel should recognise this response as a test signal and should not raise a general alarm.

Discovery MCPs are available with or without an isolator. Each version is available with a resettable element and a backbox for surface mounting as standard. If a glass option is required, spare glasses are available on request.

For ease of installation Discovery MCPs are supplied with clip-on terminal blocks and a connector which allows continuity testing before call points are commissioned.

To provide additional protection against accidental operation, a transparent hinged cover with a locking tag is available, which can be fitted to the MCP. Please note that the call point does not conform to EN54-11 when this lid is fitted and secured with the locking tag.

EMC Directive 2014/30/EU

The Discovery MCP complies with the essential requirements of the EMC Directive 2014/30/EU, provided that it is used as described in this datasheet.

A copy of the Declaration of Conformity is available from the Apollo website: www.apollo-fire.co.uk

Conformity of the Discovery MCP with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to them.

Construction Products Regulation 305/2011/EU

The Discovery MCP complies with the essential requirements of the Construction Products Regulation 305/2011/EU.

A copy of the Declaration of Performance is available from the Apollo website: www.apollo-fire.co.uk

Discovery MCP dimensional drawing