



DISCOVERY MANUAL CALL POINT

Part Number see Table 7

OPERATING PRINCIPLES

The Apollo Discovery EN54-11:2001 compliant Manual Call Point (MCP) is based on the KAC conventional MCP range. It is electronically and mechanically compatible with previous Apollo call points based on KAC's World Series product.

The address of each call point is set at the commissioning stage by means of a seven-segment DIL switch.

If an 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 Manual Call Points 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 all part numbers please refer to table 7.

For ease of installation Discovery manual call points 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, part number 26729-152 is available, which can be fitted to the manual call point. Please note that the call point does not conform to EN54-11:2001 when this lid is fitted and secured with the locking tag.

WATERPROOF AND NON-STANDARD MANUAL CALL POINTS

Discovery waterproof (IP67) manual call points are available in red or yellow. For special purposes, such as initiating a 'Hazard' alarm, specially coloured call points can be used on the fire system – see table opposite. However, these do not conform to EN54-11:2001 requirements. ■

TECHNICAL DATA

Discovery Manual Call Point
 Part No see table below
 Specifications are typical at 24V, 23°C and 50% relative humidity 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 Light Emitting Diode (LED)
Supply wiring:	Two-wire supply, polarity sensitive
Loop connections:	Terminal Block L1 -ve/L2 +ve
Operating voltage:	17-28V DC
Communication protocol:	Apollo Discovery 5-9V peak to peak
Quiescent current:	100µA
Power-up surge current:	1mA
Maximum power-up time:	1s
Alarm current, LED illuminated:	4mA
Normal analogue value:	16
Alarm state value:	64
Temperature range:	-20°C to +60°C
Humidity:	0 to 95% relative humidity (no condensation)
Compliance Standard:	EN54-11:2001; EN54-17:2005 (isolated version)
IP rating:	24D IP67 (weatherproof)
Dimensions:	89mm x 93mm x 26.5mm (manual call point) 87mm x 87mm x 32mm (back box)
Weight:	Flush mounted 110g Surface mounted 160g
Materials:	Housing: Red self-coloured polycarbonate/ABS
Hinged cover and locking tag are also available, part number:	26729-152 cover 26729-179 pack of 5 security ties
Discovery glasses are also available, part number:	26729-155 (pack of 5)

Manual Call Point Part Numbers

	Colour	Deformable Element	Backbox for surface wiring	Isolated	Non-Isolated	Waterproof / IP67 Rated
58100-910	Red	●	●		●	
58100-908	Red	●	●	●		
58100-926	White	●	●		●	
58100-927	Yellow	●	●		●	
58100-928	Blue	●	●		●	
58100-929	Green	●	●		●	
58100-950	Red	●	●		●	●
58100-951	Red	●	●	●		●
58100-953	Yellow	●	●	●		●

Table 7

