





Odyssey Mini Switch Monitor (200-201)

The Mini Switch Monitor is a miniature interface. The monitor is designed to fit into equipment with limited space or to be mounted within an enclosure such as a manual call point. The monitor can also be fitted onto a standard 35mm DINrail using a twist-click motion.

The Mini Switch Monitor is designed to monitor the state of one or more single-pole, volt-free contacts. It also reports the contact status to Apollo compatible fire control panels.

The Mini Switch Monitor features a 20I short–circuit isolator as standard and can be used as an interrupt or non-interrupt device. The interrupt feature (selected via the DIL Switch) means

the monitor can be used where a priority response is required, in particular for monitoring an individual or a zone of conventional manual call points.

Note: When the eighth section of the DIL switch is changed, the Mini Switch Monitor will change the type code it sends to the panel. The panel will have to be programmed to accept this change. The unit provides "normal", "fault", "pre-alarm" and "alarm" states to the control equipment. The states are derived from the switched resistive values shown in Table 2. The device accepts a maximum line resistance of 50Ω and requires a $20k\Omega$ End-of-Line resistor.

SPECIFICATIONS

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.		
Supply Voltage (Vmin–Vmax)	17 V-28 V dc	
Digital communications protocol	Odyssey compatible 5-9 V Peak to Peak	
Maximum current consumption at 24V dc: Power up surge Quiescent (20kΩ End-of-Line fitted)	0.8mA 0.2mA	
LED on	3.4mA + quiescent	
Remote LED on	2.8mA + quiescent	
Yellow fault LED on	2.8mA + quiescent	
Maximum cable resistance	50Ω	
Operating temperature	-20°C to +60°C	
Humidity (no condensation or icing)	0% to 95% RH	
Vibration, impact and shock	EN 54-17, EN 5 <mark>4-1</mark> 8	
Standards and Approvals	CPR, LPCB, Vd <mark>S, F</mark> G, CC <mark>MG</mark> , VNIIPO	
Dimensions	20mm height x 39mm width x 39mm depth	
Weight	30 g	
Materials	White flame retardant polycarbonate	

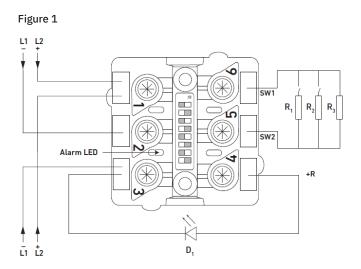


MECHANICAL CONSTRUCTION

The unit has three status LEDs, one red, one green and one yellow. The red LED is switched by the control panel and illuminates in the event of an alarm condition being detected. The green LED means that the device is polled. The yellow LED can either mean a short-circuit on loopwiring (constant) or a fault on the monitored circuit (pulsing). The unit has provision for a remote LED which is switched by the control panel. The length of cable used for the remote LED must not exceed 3m (see Table 2 and Figure 1).

Table 2: Key to Resistors			
R1 – Alarm	1ΚΩ		
R2 – Pre-Alarm	10ΚΩ		
R3 – End-of-Line	20ΚΩ		
D1 – Optional Remote LED	Max 3m cable length		

Table 3: Analogue Values Related to Circuit Status and Zone Load (Input Resistance)				
Status	Analogue Value	Mini Switch Monitor (200-201)		
Short Circuit Fault	4	< 0.1kΩ		
Indeterminate	4 or 64	0.1kΩ – 0.2kΩ		
Alarm	64	0.2 k Ω – 2k Ω (1k Ω)*		
Indeterminate	45-51 or 64	2kΩ – 3kΩ		
Pre-alarm	45-51	3kΩ – 11kΩ (10kΩ)*		
Indeterminate	16 or 45-51	11kΩ – 15kΩ		
Normal	16	15kΩ – 25kΩ (20kΩ)*		
Indeterminate	4 or 16	25kΩ – 30kΩ		
Open Circuit Fault	4	> 30kΩ		



EMC Directive 2014/30/EU

The Mini Switch Monitor 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 on request. Conformity of the Mini Switch Monitor with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to them.

Construction Products Regulation (EU) 305/2011

The Mini Switch Monitor complies with the essential requirements of the Construction Products Regulation (EU) 305/2011. A copy of the Declaration of Performance is available on request.

^{*} Note: The values shown in brackets are recommended values, recomended value resistors supplied with the unit