HP734/HP735 MINI IO MODULES INSTALLATION INSTRUCTIONS

Hush-Pro

Product Description



The Hush-Pro HP734 & HP735 Mini IO Modules are compatible with C-TEC's Hush-Pro fire BS5839-6 Grade C Controller. The modules incorporate a monitored switch input and a changeover relay output.

A compact design allows it to fit into equipment with limited space.





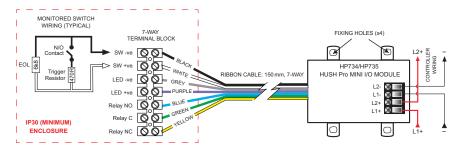


HP734	HP Mini I/O Module (Fire Level 1)
HP735	HP Mini I/O Module (Fire Level 2/EVAC)

The modules have the following features:

- Fully compliant by the LPCB to EN 54-17 and EN 54-18 9.
- On-board, bi-directional, short-circuit isolator (SC-Isolator).
- Monitored switch input.
- · Changeover relay and fire LED outputs.
- Levels reportable to the controller from the input: normal, fire, S/C fault and O/C fault.
- 2 levels issuable from the controller to the output: active and normal
- Module supplied with a 7 way ribbon cable (150 mm length), 7 way terminal block, trigger resistor and EOL resistor.

Connections



Terminal	Function	
L1 +	+Ve	
L2 +	+Ve	
L1 –	-Ve	
L2 –	-Ve	

Hush-Pro Range

- · All wiring must conform to local and/or national regulations.
- · Correct polarity must be observed.
- Terminals can accept 0.25 mm² to 2.5 mm² wiring.
- 7-way terminal block (supplied) can accept up to 1.5 mm² wiring < 3 m length.
- 470R trigger resistor (supplied) and 6k8 EOL resistor (supplied) for monitored switch. EOL device and terminal block must be fitted inside a suitable enclosure with a minimum IP30 rating (not supplied).

Installation

Ensure the module is installed in accordance with applicable local and/or national regulations. The module may be surface fixed using suitable screws (not supplied) in the four fixing holes.

The mounting enclosure is also designed to be mounted in a secondary unit such as a single gang

Note: Cables connected to the 7-way terminal block must be less than 3 metres in length.

Technical Specification

Description:		HP734 & HP735 HP Mini IO Modules		
Certified Standards:		EN 54-18: 2005 (Input Output Devices); EN 54-17: 2005 (Short-circuit isolator)		
LPCB Certificate Number:		176j/01 *		
CPR Certificate Number:		2831-CPR-F2049 *		
UKCA Certificate Number:		0832-UKCA-CPR-F0790 *		
Declaration of Performance (DoP):		DoP0000068 *		
Communication Protocol:		'Hush-Pro' (C-TEC)		
Operating Voltage:		22-40 Vdc		
Quiescent Current (Typical):		1 mA		
Active Current (Vmin):		5.7 mA (Typical); 6.8 mA (Max)		
Fault Current (@Vmin):		5.3 mA (Typical); 6.3 mA (Max)		
Input:		le monitored, normally-open switch (SW -ve, SW +ve) triggered by a 470R with EOL resistor.		
Outputs:	One single-pole, changeover relay (C/NO/NC), non-monitored. Relay rating: 1 A @ 30 Vdc or 0.3 A @ 125 Vac. Note: In exposed environments, this device may be subject to mechanical shocks which are likely to occur, albeit infrequently, in the anticipated service environment. Sufficient anti-glitch protection should be taken to ensure a temporary changeover of the relay contacts, of up to 1 sec, does not activate connected equipment. In non-exposed environments, such protection may not be necessary. Single 2-wire fire LED drive output (LED -ve, LED +ve).			
LED Indicators:	"	Single Red (Relay Active & Polling). Single Yellow (Monitored Input Fault).		
Body Material:	Clea	Clear ABS polycarbonate enclosure		
Dimensions:	65 m	mm x 60 mm x 20 mm (excluding terminal block & ribbon cable)		
Weight:	47 g	7 g (including terminal block & ribbon cable)		
Operating Temp.: -10°C to +55°C		C to +55°C		
Humidity:	Maxi	Maximum 95% RH (non-condensing)		

^{*} Certificates and DoPs available for download on C-TEC's website

EN 54-17 SC-Isolator Specification (Controllable Isolator)

Maximum Voltage (V max):	40 Vdc
Nominal Voltage (V nom):	40 Vdc
Minimum Voltage (V min):	22 Vdc
Maximum Current Device Isolates, switches from closed to open (Iso max):	55 mA
Minimum Current Device Isolates, switches from closed to open (Iso min):	15 mA
Maximum Rated Continuous Current with switch closed (Ic max):	1 A
Maximum Rated Switching Current under short circuit conditions (Is max):	1.6 A
Maximum Leakage Current with switch open (IL max):	20 μA
Maximum Series Impedance with switch closed (Zc max):	100 mohms



Manufacturer: Computionics Limited (C-TEC), Challenge Way, Martland Park, Wigan, Lancashire WN5 0LD. www.c-tec.com E&OE. No responsibility can be accepted by the manufacturer or distributors of these devices for any misinterpretation of this instruction, or for the compliance of the system as a whole. The manufacturers policy is one of continuous improvement and we reserve the right to make changes to product



