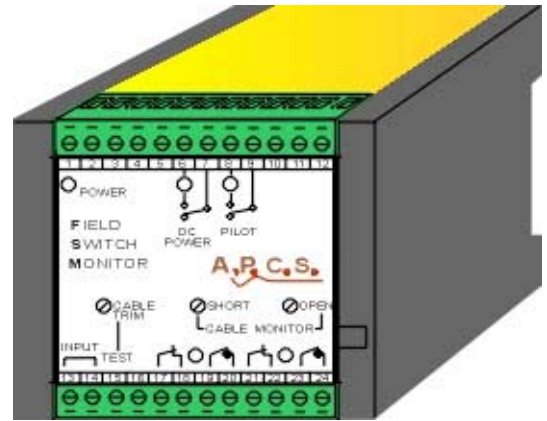


FIELD SWITCH MONITOR FSM770

DESCRIPTION

The Field Switch monitor FSM770 has been designed to monitor the status of a critical switch or trip and mimic its behaviour at a control station. It also detects possible error conditions of the pilot cable connecting to the remote switch. For example, the FSM770 would monitor a pressure or temperature trip providing extra fail-safe protection to expensive transformers, boilers, motors etc. A "Cable Trim" potentiometer is accessible on the front panel in order to optimise the FSM770 for various cable lengths. With a milliamp-meter connected across terminals 15(+) and 13, this potentiometer is adjusted for 12mA reading when the remote switch is open. The "Short" potentiometer allows the optimisation of the setting for a short circuit on the pilot cable to allow for large series resistances before the short. The "Open" potentiometer allows the optimisation of the setting for an open circuit on the pilot cable or for large series resistances.



The FSM770 has four functional relay outputs:

- "Pilot Contact" that mimics the remote measured contact - rated 10A.
- "Power Fail" Relay to detect loss of power to the FSM770 - rated 10A.
- "Short Circuit in the Pilot Cable" Relay - N/O + N/C set of Contacts (8A).
- "Open Circuit in the Pilot Cable" Relay - N/O + N/C set of Contacts (8A).

The FSM770 has two versions of wide-swing power supply.

The high power option is 80-300Vdc / 80-280Vac. The low power option is 10-60Vdc / 16/42Vac.

General Specifications

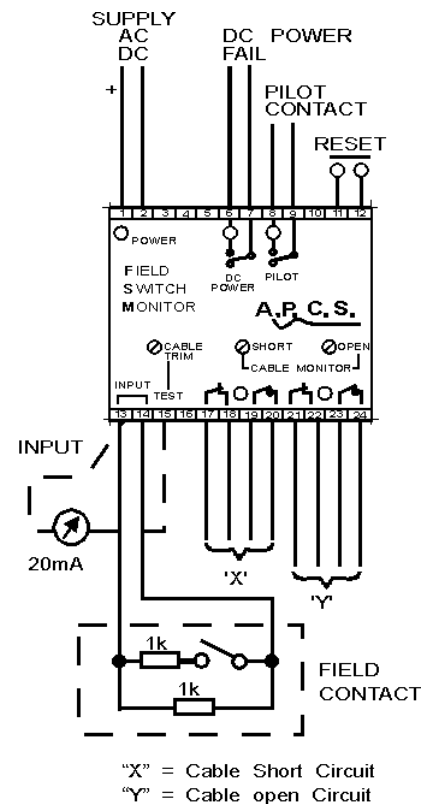
Size:	80W x 70H x 110D mm.
Housing material:	ABS, aluminium.
Mounting:	DIN-Rail, gear plate.
Termination:	Plug in screw terminals.
Weight:	0.3 kg.
Protection class:	IP40 (IP65 Enclosure opt.)
Electromagnetic compatibility:	Complies with AS/NZS 4251.1 (EN 50081.1)
Operating temp. range:	0...+60°C.
Storage temp. range:	-20...+70°C.
Isolation:	2kV.
Power Supply -1:	80-300Vdc / 80-280Vac.
Power Supply -2:	10 - 60Vdc / 16 - 42Vac.
Power requirement:	4VA
Contacts:	N/O 10A/250Vac for Pilot Contact or Power Fail alarm N/O +N/C 8A/250Vac for Short or Open pilot cable alarm

FSM Type No Designation

FSM770-X 0

Supply:

- 1 = 80-300Vdc / 80-280Vac 50/60Hz
2 = 10V - 60Vdc / 16 - 42Vac 50/60Hz



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