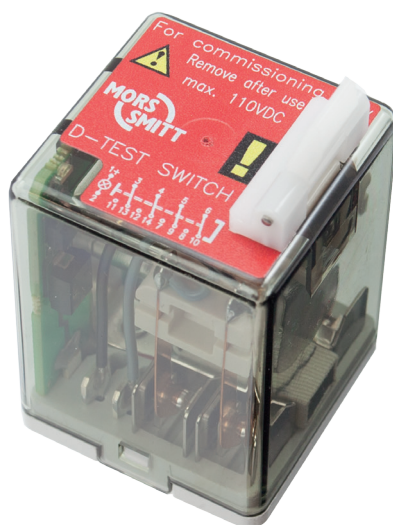


D-Test Switch - Plug-in, 4 pole

Datasheet



Features

- Latching manual switch
- Instantaneous, 4 C/O contacts
- Voltage presence indicator
- Magnetic arc blow-out
- Compact plug-in design
- Suitable for all D-relay sockets
- To simulate a standard 4-pole D-relay (similar contact configuration)
- Transparent cover

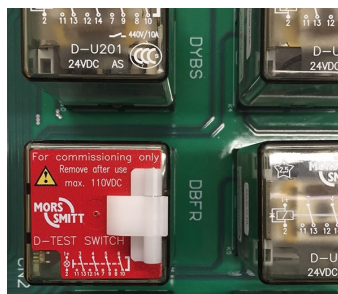
Description

Plug-in test switch with 4 change-over contacts to simulate an energized D-relay in an electrical installation. With latching manual operation and voltage indicator on coil contacts.

D-relay housing and contact configuration to be suitable for all D-relay sockets. Standard equipped with magnetic arc blow-out for high breaking capacity and long contact life.

Application

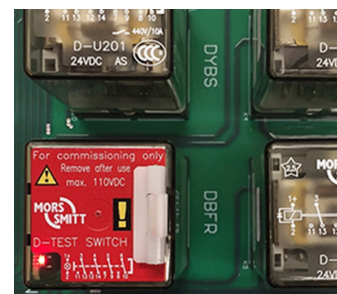
Designed for testing and commissioning electrical installations. Can be used for maintenance purposes and fault finding as well.



Test for voltage presence:
No voltage present
(LED indicator OFF)



Test for voltage presence:
Voltage is present
(LED indicator ON)

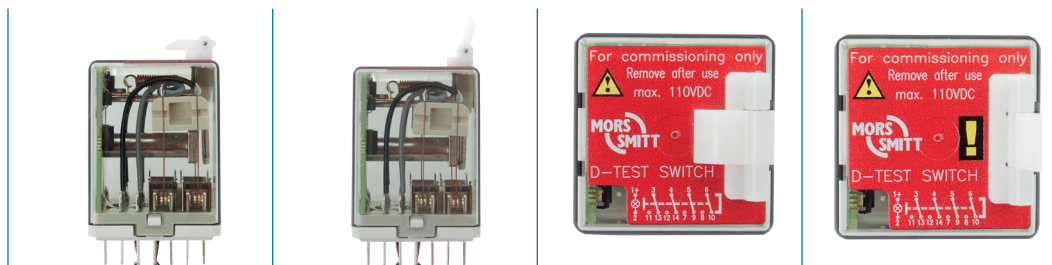


Test system by simulating energized relay:
Contacts are manually switched

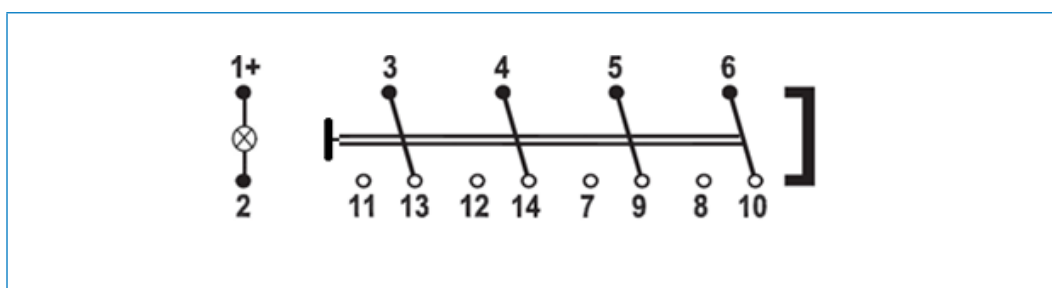


D-Test Switch

Technical specifications



Connection diagram



Contact characteristics

Amount and type of contacts	4 C/O
Maximum make current	16 A
Peak inrush current	200 A (withstand > 10 x 200 A @ 10 ms, 1 min)
Maximum continuous current	10 A (AC1 ; IEC 60947)
Maximum switching voltage	250 VDC, 440 VAC
Minimum switching voltage	12 V
Minimum switching current	10 mA
Maximum breaking capacity	110 VDC, 8 A (L/R ≤ 15 ms) 230 VAC, 10 A (cosφ ≥ 0.7)
Contact resistance	15 mΩ (initial)
Material	Ag
Contact gap	0.7 mm
Contact force	> 250 mN

Electrical characteristics

Nominal voltage	0-110 VAC/VDC
Maximum operating voltage	137.5 VAC/VDC
LED threshold voltage	DC 16 V ± 20%
	AC 5-15 V
LED	Red color
	AC Remark: Reduced brightness with low voltage
Dielectric strength	Pole-pole IEC 60255-5 4 kV, 50 Hz, 1 min
Insulation between open contacts	2.5 kV; 50 Hz; 1 min
Pulse withstanding	IEC 60255-5 5 kV (1.2/50 μs)



D-Test Switch

Technical specifications

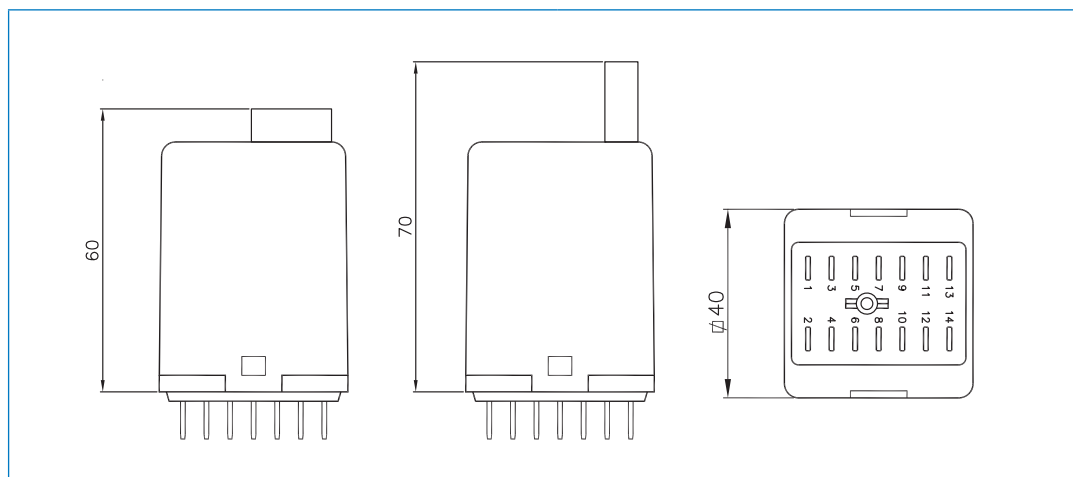
Mechanical characteristics

Mechanical life	Switch	>10.000 operations
	Insert / pull-out	> 1.000 times
Weight		110 g

Environmental characteristics

Vibration	IEC 61373, Category I, Class B, Body mounted
Shock	IEC 61373, Category I, Class B, Body mounted
Operating temperature	-25 °C...+55 °C
Protection	IEC 60529, IP40 (D-Test Switch on socket)

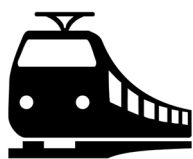
Dimensions (mm)



Caution



1. Unpower relay panel before exchanging relay with D-Test Switch
2. Apply fast movement when switching on to limit arc duration
3. Remove after use
4. Intended for testing and commissioning only, can not be used in normal train operation



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