



# **D-Test Switch - Plug-in, 4 pole** Datasheet



#### Features

- Manual operated relay (no coil installed)
- Latchable 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 D-relay operation in an electrical installation. With latchable manual operation and voltage presence indicator.

D-relay housing and contact configuration to be suitable for all D-relay sockets.

## Application

Testing and commissioning electrical installations. Can be used for maintenance purposes and fault finding.



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

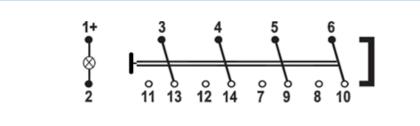








## Connection diagram



## **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 $\leq$ 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	C 16 V ± 20%	
	5-15 V	
LED	Red color	
	Remark: Reduced brightness wi	th low voltage
Dielectric strength Pole-	e 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)









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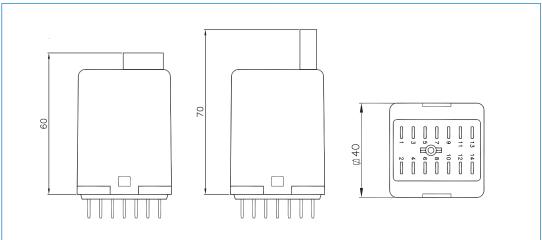
### **Mechanical characteristics**

Mechanical life Swi	ch >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



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





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