

## DRR-DTH/DRT-DTH Features and Benefits



### Features

- Changeover switch with 39.67mm x 5.53mm (1.562" x 0.21") glass envelope
- Capable of carrying up to 3 Amps
- Maximum contact rating up to 50 Watts
- Minimum voltage breakdown 1200 Vdc
- 10<sup>9</sup> Ohms insulation resistance
- Available sensitivity range 50-80 AT

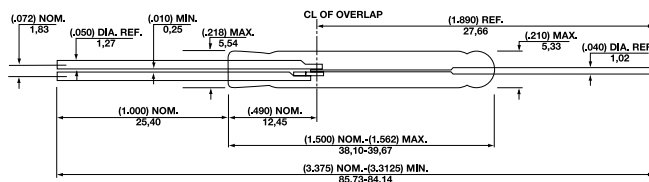
### Benefits

- Hermetically sealed switch contacts are not effected by and have no effect on their external environment
- Can be used as changeover or normally closed contact
- Capable of switching European mains voltage
- Low, stable contact resistance
- Zero operating power required for contact closure
- Fit and forget durability

### Applications

- Security
- Limit switching
- Industrial safety applications
- White goods applications
- Automotive applications

## DIMENSIONS (in) mm



Switch Type	DRR-DTH	DRT-DTH *
Contact Form	C	C

### ELECTRICAL RATINGS

Parameter	Switching	Watt - max.	DRR-DTH	DRT-DTH
Contact Rating (2)			30	50
Voltage	Switching	Vdc - max.	500	500
	Breakdown	Vdc - min.	1200	1000
Current	Switching	A - max.	0.5	1.5
	Carry	A - max.	3.0	2.0
Resistance	Contact, Initial	Ω - max.	0.125	0.500 (7)
	Insulation	Ω - min.	10 <sup>9</sup>	10 <sup>9</sup>
Capacitance	Contact	pF - typ.	2.0	2.0
Temperature	Operating	°C	-20 to +125	-20 to +125
	Storage (6)	°C	-65 to +125	-65 to +125

### OPERATING CHARACTERISTICS

Parameter	DRR-DTH	DRT-DTH
Operate Time (3)	4.5 ms - max.	5.5 ms - max.
Release Time (3)	7.0 ms - max.	8.0 ms - max.
Shock	11ms ½ sine wave	G - max.
Vibration	50-2000 Hertz	G - max.
Resonant Frequency	Hz - typ.	2750

### MAGNETIC CHARACTERISTICS

Parameter	DRR-DTH	DRT-DTH
Pull-In Range (4)	Ampere Turns	50-80
Rating Sensitivity (5)	Ampere Turns	60
Test Coil		L4988

- Notes
- 1) For details on electrical specifications, contact Hamlin.
  - 2) Contact rating-Product of the switching voltage and current should never exceed the wattage rating. Contact Hamlin for additional load/life information.
  - 3) Operate/Release Time-per EIA/NARM RS421A, diode suppressed coil.
  - 4) Pull in Range-Contact Hamlin for tolerances available within this range.
  - 5) Rating Sensitivity-The value at which contact ratings and operating characteristics are determined. Derating may be required below this value.
  - 6) Storage Temperature-Long time exposure at elevated temperature may degrade solderability of the leads.
  - 7) Contact resistance measured at 36 Vdc, 100 ma, switched wet.

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