

## 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

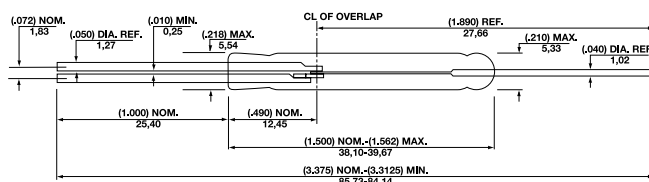
### Benefits

- 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. 10
Vibration	50-2000 Hertz	G - max. 15
Resonant Frequency	Hz - typ.	2750

### MAGNETIC CHARACTERISTICS

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

**USA** Tel: +1 920 648 3000 • Fax: +1 920 648 3001 • Email: sales.us@hamlin.com  
**UK** Tel: +44 (0)1379 649700 • Fax: +44 (0)1379 649702 • Email: sales.uk@hamlin.com  
**Germany** Tel: +49 (0) 6142 923920 • Fax: +49 (0) 6142 923921 • Email: sales.de@hamlin.com  
**France** Tel: +33 (0) 1 6047 3000 • Fax: +33 (0) 1 6015 9136 • Email: sales.fr@hamlin.com

INFORMATION PROVIDED ON THIS DATA SHEET IS PROVIDED FOR INFORMATION PURPOSES ONLY AND SHOULD NOT BE RELIED UPON AS BEING ACCURATE FOR ANY PARTICULAR PURPOSE. Product performance may be affected by the application to which the product is applied. Upon request, HAMLIN will assist purchasers by providing information specific to any particular application. HAMLIN disclaims any and all liability whatsoever for any purchaser's reliance upon the information contained on this data sheet without further consultation with authorised representatives of HAMLIN.

ISSUE No: 3 DATE: 28/09/0