# HAMLIN



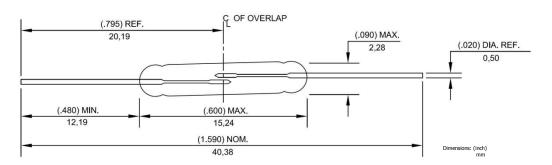
#### **BENEFITS**

- Hermetically sealed switch
- Contacts have no effect on their external environment
- Low space requirement
- Zero operating power required
- Fit and forget durability

#### **APPLICATIONS**

- Reed Relays
- Security
- Limit Switching
- Telecoms line switching
- Office equipment
- Light inductive loads
- European mains Voltage Switching

# HA15-2



Switch type			HA15-2		
Contact Form			A (SPST)		
Underwriters Labo	ratories Recognized, F	ile E47258 (1)	c <b>FL</b> °us		
ELECTRICAL RATINGS		Sensitivity (5)	17-23	22+	
Contact Rating (2)		Watts - max	20 W for 100-265 VAC loads 10 W for all other loads		
Voltage	Switching	VAC rms max / VDC	265 / 200	265 / 200	
	Breakdown	VDC - min	400	450	
Current	Switching	A - max (AC/DC)	0.3 / 0.4	0.35 / 0.5	
	Carry	A - max (DC)	1.4	1.5	
Resistance	Contact, Initial	Ω - max	0.100	0.100	
	Insulation	Ω - min	10 <sup>10</sup>	10 <sup>10</sup>	
Capacitance	Contact	pF - typ	0.2	0.2	
Temperature	Operating	°C	-20 to +125	-20 to +125	
	Storage (6)	°C	-65 to +125	-65 to +125	
OPERATING CHAR	ACTERISTICS				
Operate time (3)		ms - max	0.6		
Release Time (3)		ms - max	0.2		
Shock	11ms 1/2 sine wave	G - max	100		
Vibration	50-2000 Hertz	G - max	30		
Resonant					
Frequency		Hz - typ	4000		
MAGNETIC CHARA	CTERISTICS				
Pull-in Range (4)		Ampere Turns	17-23, 22-28, 27-33		
Test Coil			L4989		

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

Hamlin China

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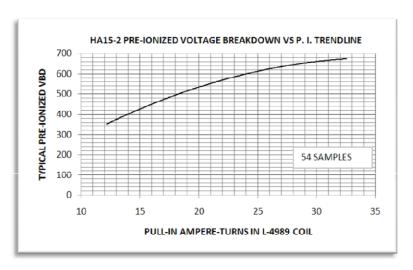


# HA15-2

### PI vs DO

# HA15-2 40 40 30 10 0 5 10 15 20 25 DROP-OUT AMPERE TURNS

### **BREAKDOWN VOLTAGE**



## TYPICAL LIFE TEST RESULTS

Voltage	10 VDC	24VDC	25VDC	120VAC Relay	250VAC
Current	1 mA	10 mA	250mA	20 mA	10 mA
Pull-In AT	20	20	20	15	20
Life	1 x 10 <sup>8</sup>	1 x 10 <sup>7</sup>	50 x 10 <sup>6</sup>	2 x 10 <sup>6</sup>	5 x 10 <sup>6</sup>

Life test notes:-

Each operation monitored for failure to open or close.

15-20 samples each test.

End of life criteria: >10% failure.

Results may vary with such factors as pull-in, circuit reactance or drive method.