

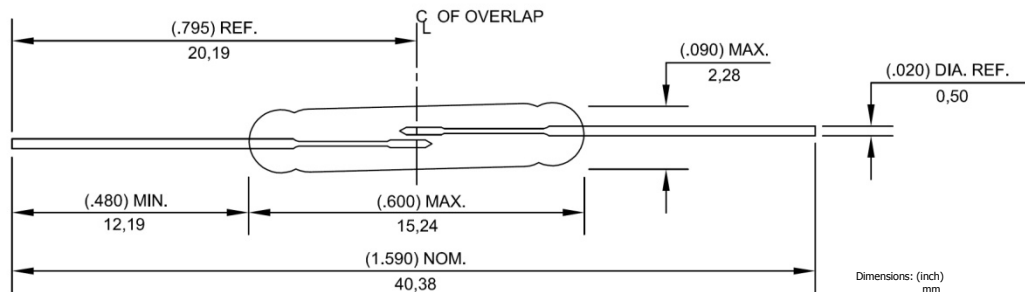
## BENEFITS

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

## APPLICATIONS

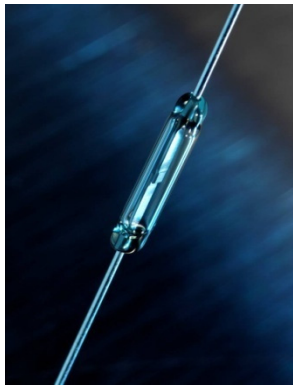
- Reed Relays
- Security
- Limit Switching
- Telecoms line switching
- Office equipment
- Light inductive loads
- European mains Voltage Switching

## HA15-2



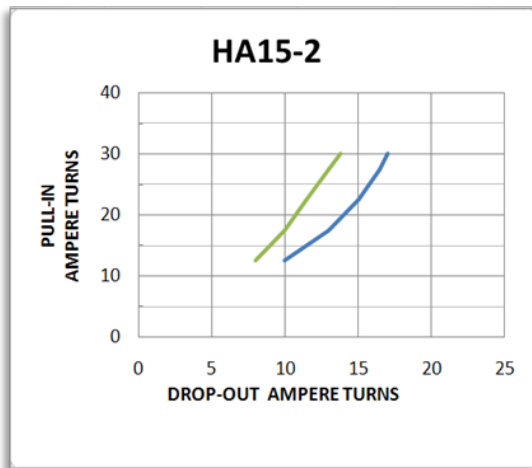
Switch type		HA15-2	
Contact Form		A (SPST)	
<b>ELECTRICAL RATINGS</b>		Sensitivity (5)	
		17-23	22+
Contact Rating (2)		Watts - max	
		20 W for 100-265 VAC loads 10 W for all other loads	
Voltage	Switching	VAC rms max / VDC	265 / 200
	Breakdown	VDC - min	400
Current	Switching	A - max (AC/DC)	0.3 / 0.4
	Carry	A - max (DC)	1.4
Resistance	Contact, Initial	$\Omega$ - max	0.100
	Insulation	$\Omega$ - min	10 <sup>10</sup>
Capacitance	Contact	pF - typ	0.2
Temperature	Operating	°C	-20 to +125
	Storage (6)	°C	-65 to +125
<b>OPERATING CHARACTERISTICS</b>			
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
<b>MAGNETIC CHARACTERISTICS</b>			
Pull-in Range (4)		Ampere Turns	17-23, 22-28, 27-33
Test Coil			L4989

- 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 (inc. bounce / Release Time-per Eia/NARM RS421A, diode suppressed coil.
  - 4) Pull in Range-Contact Hamlin for tolerances within this range.
  - 5) Rating Sensitivity, The value at which contact ratings and operating characteristics are determined. Derating may be required for lower values
  - 6) Storage Temperature-Long time exposure at elevated temperature may degrade solderability of the leads.

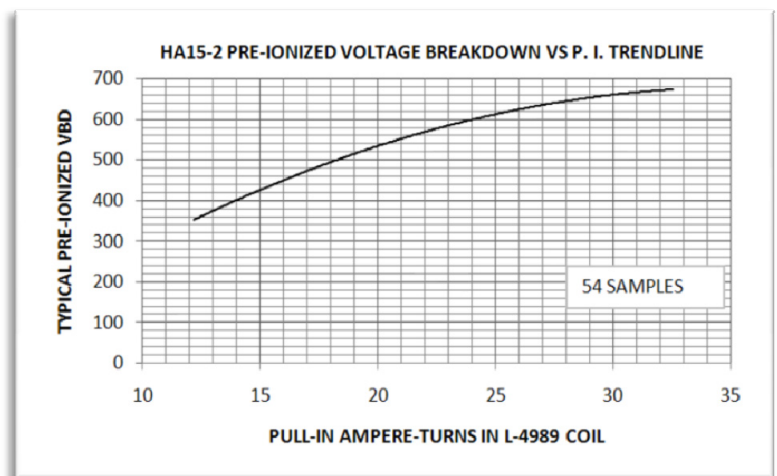


## HA15-2

### PI vs DO



### 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	$1 \times 10^8$	$1 \times 10^7$	$50 \times 10^6$	$2 \times 10^6$	$5 \times 10^6$

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.