



# KHS series

## Hermetically sealed General Purpose AC or DC relay

E184824

LR222256

Technical data of approved types on request

### Features

- Hermetically sealed, UL approved for Class 1 Division 2 hazardous locations
- Miniature 4 pole relay
- Various contact materials available for specific load requirements.

### Contact Data @ 25°C

**Arrangement:** 4 Form C (4PDT)

**Expected life:** 10 million operations, mechanical; 100,000 operations min. at rated loads. Ratings are based on tests of relays with ungrounded frames.

**Initial Breakdown Voltage:** 500Vrms, 60Hz between open contacts. 1240Vrms, 60Hz, between all other elements.

### Contact Ratings

Contact Code	Material	Resistive Ratings	
		Minimum	Maximum
1	Silver	100mA @ 12VAC/12VDC	3A @ 240VAC,30VDC
2	Silver-cadmium oxide	500mA @ 12VAC/12VDC	5A @ 240VAC,30VDC
3	Gold-silver-nickel	10mA @ 12VAC/12VDC	3A @ 240VAC,30VDC
6	Bifurcated cross bar, gold overlay silver	Dry circuit	1A @ 240VAC,30VDC

### Coil Data @25°C

**Voltage:** from 12V to 110Vdc and 24 to 120 Vac 50/60Hz

**Nom. Power:** DC coils – 0.9 watt; 0.5 watt min op at 25°C

AC coils – 1.2VA; 0.55VA min op at 25°C

**Max. Power:** DC coils – 2.0 watts @ 25°C

**Duty Cycle** – Continuous

**Initial Breakdown voltage:** 500V rms, 60 Hz

### Coil data

Nominal voltage	DC Coils		AC Coils	
	Resistance in Ohms ±15% @ 25°C	Nominal Inductance in Henrys	Resistance in Ohms ±15%	Nominal AC current in mA
12	160	.28	-	-
24	650	1.0	160	52
48	2,600	4.5	-	-
110	11,000	17.0	-	-
120	-	-	3,900	11

### Operate Data @ 25°C

**Must-Operate Voltage :DC:** 75% of nominal voltage

**AC:** 85% of nominal voltage

**Operate time:** 13 milliseconds typical @ nominal voltage (excluding bounce)

**Release time:** 6 milliseconds typical @ nominal voltage (excluding bounce)

### Environmental Data

**Temperature Range:** -45°C to +70°C operate.

-60°C to +130°C storage

### Mechanical Data

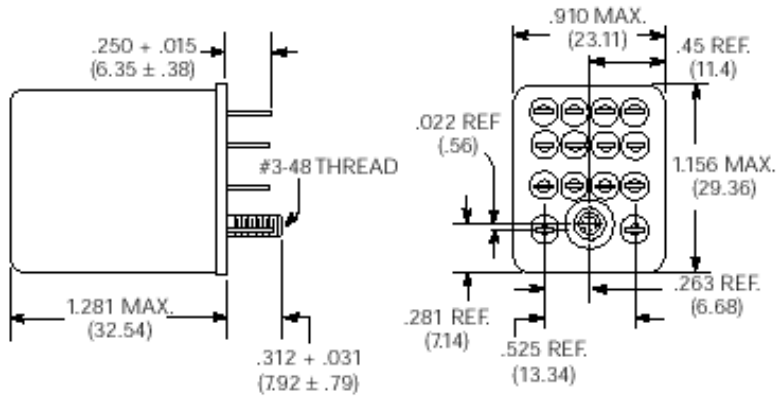
**Mountings:** #3-48 stud, sockets with solder terminal

**Termination:** Solder / Socket terminals

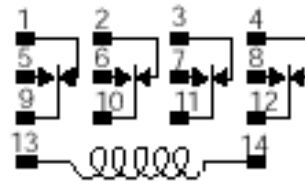
**Enclosure:** Hermetically sealed

**Weight:** 1.6 oz. approx. (45g)

### Outline dimensions



### Wiring Diagrams (Bottom View)



Class 1 Div. 2 Group A, B, C & D Hazards

### Ordering Information

Typical part No → KHS -17 D 1 1 -24

#### Basic Series

#### Contact arrangement

17 = 4 Form C (4PDT)

#### Operating Coil

A = AC D = DC

#### Mounting and Termination

1 = Socket mount / solder terminal

#### Contact Material

1 = Silver

2 = Silver Cadmium Oxide

3 = Gold-Silver-Nickel (Not UL listed)

6 = Bifurcated crossbar, gold overlay silver

#### Coil Voltage

24, 120 VAC

12, 24, 48, 110 VDC