

DEUTSCH

LTD

HDS10 RELAY DATA SHEET

HDS 10/BS9151 F0041 2PDT TO5 CAN RELAY

- Hermetically sealed
- BS9000 approval
- Suitable for high density PCB mounting
- Low level to 1 amp switching

Specifications

GENERAL

CONTACT ARRANGEMENT

2 POLE CHANGEOVER (2PDT) BREAK BEFORE MAKE

WEIGHT

2.5 g max.

FINISH

The nickel can identification is in black indelible ink
Relay header and terminals are gold plated

PERFORMANCE

CONTACT RATING/LIFE

1A RESISTIVE, 10^5 OPERATIONS AT 28 VDC
 \emptyset .2A INDUCTIVE, 10^5 OPERATIONS AT 28 VDC
LOW LEVEL, 10^6 OPERATIONS

OPERATE TIME

2.0 ms max. at 25°C with nominal voltage
(excluding bounce)

RELEASE TIME

1.5 ms max. (non suppressed)
4.0 ms max. (suppressed)

BOUNCE TIME

1.5 ms max.

ENVIRONMENTAL

TEMPERATURE RANGE

-65°C to +125°C

BUMP

4000 Bumps at 390 m/s², 6ms duration

SHOCK

490 m/s² for 11ms

VIBRATION

60 to 2000 Hz at 196 m/s² acceleration
10 to 60 Hz at 3mm Da

ELECTRICAL

CONTACT RESISTANCE

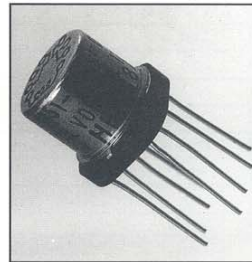
100 milliohms (initial) maximum measured with open
circuit-voltage 10 mV, current 10 mA max. 200 milliohms
during and after rated life. (Resistance measured 3 mm
from glass seal).

DIELECTRIC STRENGTH

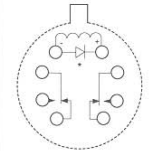
500 VRMS, 50 Hz at sea level
125 VRMS, 50 Hz at 70,000 ft (21,538m)

INSULATION RESISTANCE

Not less than 500 Mohms at 500 VDC



Wiring Schematic
Relay
de-energised



* Diode applies
to suppressed
versions only



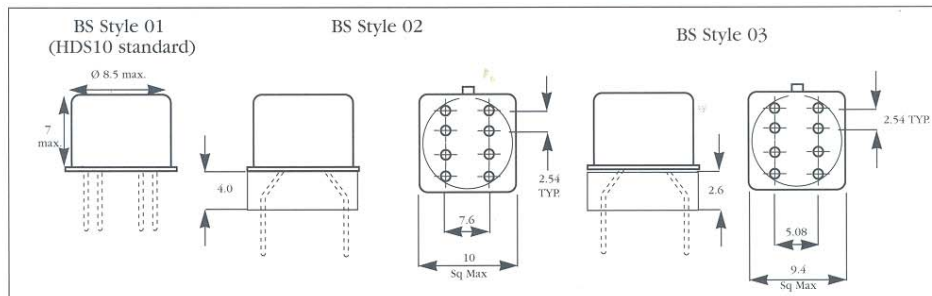
A S T E P A H E A D I N T E C H N O L O G Y

COIL VARIANTS AND OPERATING CHARACTERISTICS

| HDS10 Coil | Nominal operating voltage (VDC) | Coil resistance (Ohms +/- 10% @ 25°C) | Must Operate voltage (VDC) | Must drop out voltage (VDC) | BS Coil | BS Coil (suppressed) Consult us for availability |
|------------|---------------------------------|---------------------------------------|----------------------------|-----------------------------|---------|--|
| H1 | 5.0 | 50 | 2.7 | 0.22 | 01 | 1S |
| C1 | 6.0 | 98 | 3.5 | 0.28 | 02 | 2S |
| E1 | 12.0 | 390 | 7.0 | 0.63 | 03 | 3S |
| M1 | 18.0 | 880 | 10.7 | 0.91 | 04 | 4S |
| F1 | 26.5 | 1560 | 14.2 | 1.37 | 05 | 5S |
| J1 | 30.0 | 2500 | 17.7 | 1.50 | 06 | 6S |
| D1 | 9.0 | 220 | 5.3 | 0.54 | 07 | 7S |

All values are measured at +25°C

MOUNTING VARIANTS

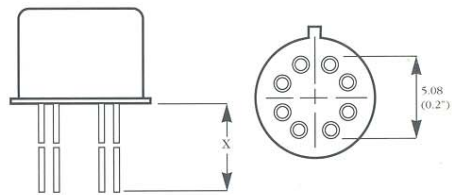


TERMINATION VARIANTS

| HDS1Ø | BS | Type | Dimension x (mm) |
|-------|----|----------|------------------|
| D | 01 | Straight | 37 min. |
| J | 02 | Straight | 4.25 + 1.0 |
| - | 03 | Straight | 12.7 +/- 0.8 |

Termination variant 02 is not used with mounting variants 02 & 03.

The relay has 8 lead-out wires 0.43mm dia



ORDERING INFORMATION

BS types - example part no. :

BS9151-F0041 -05 -01 -01

Generic type

Deutsch types - example part no. :

HDS10 D - F1

Generic type

Termination variant

Mounting variant

Coil variant

BS HDS1Ø

01 = D
02 = J
03 = -

01 = -
02 = -
03 = -

01 = H1
02 = C1
03 = E1
04 = M1
05 = F1
06 = J1
07 = D1

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Kenspeckle: HDS10