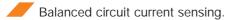


Telephone Line Current Sensing Reed Relays Type 55

On/Off hook detection with minimum return losses.



Pulse counting applications.

Full batch traceability.

If you have a volume requirement for a product variant not shown on this sheet please contact us.

BT55 Relays have highly sensitive single or twin balanced coils that are operated in series addition and are closely matched to maintain telephone line balance in line sensing applications. BT55C/4 is specifically designed for low impedance and minimum insertion loss with 4KV isolation between coil and contact circuits.

All relays with the exception of style 73, are cased (C) and not potted.

Contact Ratings

 $\begin{array}{lll} \text{Switching voltage} & 50 \text{Vdc} \\ \text{Switching current} & 100 \text{mA} \\ \text{Switching power} & 3 \text{W} \\ \text{Contact resistance} & 200 \text{m}\Omega \\ \end{array}$

Switching Times (typical)*

 $\begin{array}{ll} \text{First closure} & 100 \mu \text{S} \\ \text{Bounce} & 250 \mu \text{S} \\ \text{Release} & 25 \mu \text{S} \end{array}$

Insulation Resistance

Dielectric Strength

Across open contacts 200Vdc Between contact coils on:

BT55C/1, 2 1.5KVdc BT55/73 4KVrms Between twin coils 1.0KVdc

**BT55/1 20mA drive, 10pps

Alternative relay specifications for line current sensing requirements are available. Contact us with your application details.

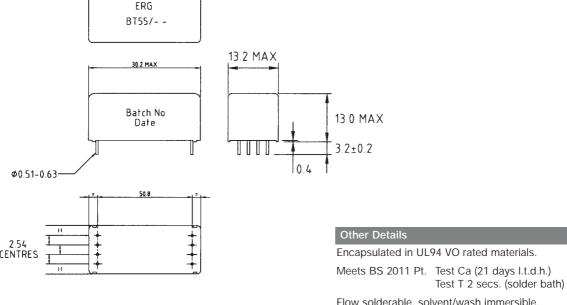
Specifications at 20°C and 75% RH				
Coil Details		BT55C/1*	BT55C/2	BT55/73
Resistance	Ω(±10%)	5+5	9+9	9+9
Current (nom)	(mA)	20	20	20
Must operate	(mA)	15	15	15
Must release	(mA)	2.0	2.0	2.0
Max. current	(mA)	200	150	150

*BT55C/1: Coil balance about earth better than -70dBm at 200Hz-5KHz Coil inductance 6mH typical @ 1.5KHz



Schematic Details					
Style	Details	Schematic arrangement viewed from underside			
BT55C/1 BT55C/2	Balanced twin coil relays	F1 M.S. F2 S1 S2			
BT55/73	Balanced twin coil relays with 4KV isolation between coil and contact circuits.	F1 M.S. OF THE PROPERTY OF THE			

Mechanical Details (mm ±0.1)



Flow solderable, solvent/wash immersible.

Temperature range -10°C to +85°C

Internal magnetic screening is standard. Similar relays can be mounted on 13mm side pitch with <5% (aiding/opposing) influence on adjacent relays. The effect of extraneous magnetic field e.g. other relays, transformers etc. may affect the performance of these sensitive relays and should be evaluated.

Please note: BS 2011 is now superseded by BS EN 60068.

This leaflet is believed to contain the best information available at the time of printing, but is subject to change without notice. Performance figures, where quoted, are actually estimates based on our experience or that of our customers or statutory authorities. In common with all components reliability varies with many factors, and users are invited to contact us in appropriate cases so that where relevant information is available it may be considered by the user. All supplies are subject to the Company's standard conditions of sale which are available on request.



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