

CSNE151

M

DRAWING NUMBER

6

ISSUE

DO NOT SCALE PRINT

Honeywell

5A TO 25A
MULTI - RANGE
CURRENT SENSOR

CATALOGUE LISTING
CSNE151

4x2.54

7.9

20.32

2.0

1.20

4.00

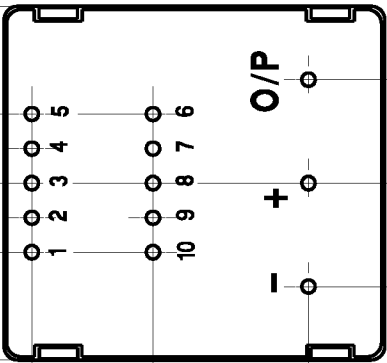
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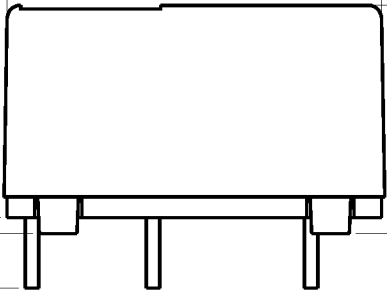
27.5

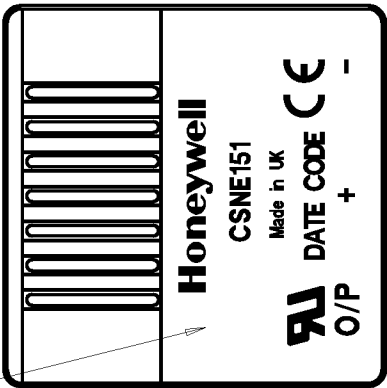
28.0

7.60

7.60

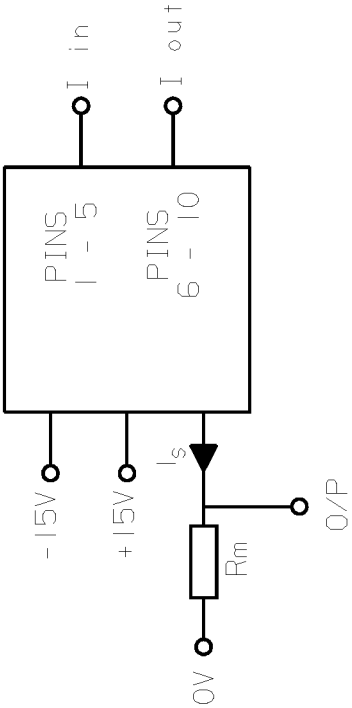






LOGO, DATE CODE AND CAT . LISTING MARKED ON SENSOR.

ELECTRICAL SCHEMATIC



RECOMMENDED P.C.B. HOLE :- Ø1.2

DESCRIPTION

CSNE151 IS A MULTI-RANGE CURRENT SENSOR MODULE BASED ON THE "NULL BALANCE" HALL EFFECT PRINCIPLE. 5,6,8,12 OR 25A CAN BE MEASURED BY SELECTING THE APPROPRIATE 1 TO 5 PRIMARY TURNS.

ACCURACY DATA

OFFSET :- ±0.05 mA TYP.
±0.15 mA MAX.

OFFSET DRIFT WITH TEMP.: - ±0.17mA TYP.
±0.6mA MAX.

LINEARITY:- ±0.2% I_{pN}

RESPONSE TIME :- <1µS

FREQUENCY:- DC TO 150KHz

ENVIRONMENTAL DATA

OPERATING TEMP.: - 0 TO +70° C

STORAGE TEMP.: - -40 TO +90° C

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ELECTRICAL DATA

NOMINAL PRIMARY CURRENT I_{pN}: - 25A rms

MEASURING RANGE I_p: - 0 TO ±36A

LOAD RESISTANCE:- R_{m min} R_{m max}

±25A.t max 100Ω 320Ω

+36A.t max 100Ω 190Ω

SUPPLY VOLTAGE:- ±15V (±5%)

DIELECTRIC STRENGTH:- 5.0kV_{rms}/50Hz/1min.

CURRENT CONSUMPTION:- I₀ + I_s mA

PRIMARY INTERNAL RESISTANCE:- <1.25mΩ/TURN

SECONDARY INTERNAL RESISTANCE:- 110Ω MAX AT +70°C.

PRIMARY TURNS	PRIMARY CURRENT		NOM. OUTPUT CURRENT (mA) I _s	PRIMARY RESISTANCE (mΩ)	PRIMARY INSERTION INDUCTANCE (μH)	PIN CONNECTIONS
	NOM. I _{pN} (A)	MAX. I _p (A)				
1	25	36	25	0.3	0.023	5 4 3 2 1 IN OUT 6 7 8 9 10
2	12	18	24	1.1	0.09	5 4 3 2 1 IN OUT 6 7 8 9 10
3	8	12	24	2.5	0.21	5 4 3 2 1 IN OUT 6 7 8 9 10
4	6	9	24	4.4	0.37	5 4 3 2 1 IN OUT 6 7 8 9 10
5	5	7	25	6.3	0.58	5 4 3 2 1 IN OUT 6 7 8 9 10

AUTHOR N

DESIGN

CHECK

M. LOCH

3/94

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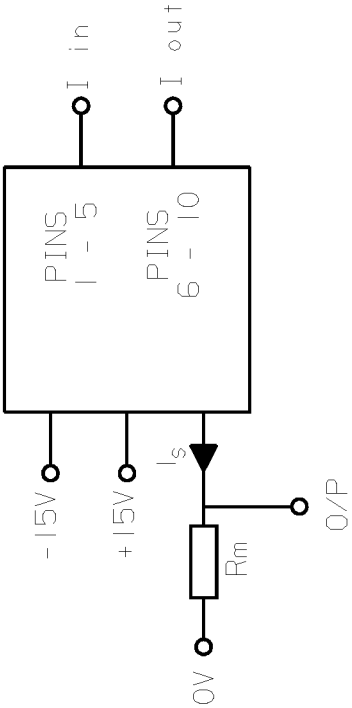
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[illegible]