





MINI - COUNTER 231 Hour meter for DC and AC with start input

Customers advantages

- wide temperature range, high shock resistance, low power consumption
- no batteries nonvolatile logic memory
- high immunity from disturbance
- count- and reset-input to switch as operating voltage as 230 VAC

Technical data

Display

6 digits, 7 segment LCD, 5 mm digit height, Leading zero blanking for the first 4 digits Display capacity 999999

Operating voltage

12 to 60 VDC and 2 ranges, 12 VAC to 230 VAC

Start input

For DC static H-level, for AC static L1 or N: 1 / 10 hour, Indicated by hourglass (3 sec on - 1 sec off)

Reset input

Minimum pulse width: 20 msec. on closed contact: display off

Data retention

Data retention is minimum 25 years by the integrated EEPROM.

Power consumption

Power consumption depends on voltage.

Nominal power consumption: 860 mVA max

Nominal current consumption: 13 mA max

EMC

CE-conform EMC according to DIN VDE 0843 T4: sharpness 4 for hardest industrial applications

Temperature/moisture

Temperature range for storage and operation: Temperature/moisture:

- 30 °C to + 65 °C

90 % rel. moisture at 38 °C

Safety classification according to DIN 40050

Housing 3, 4: Housing 5: IP 30 IP 65

Resistance against vibration according to DIN IEC 68 T 2-6 FC 10/500 - 0.35/50 - 30/3

Weight

Housing 3: Housing 4: 50 g 48 g

Housing 5:

33 a

Housing material / Burn characteristic

plastics PA; burn behavior VO according to UL standard 94

Wiring

Screw terminal connection, max. pin cross-section: 2 x 1,5 mm²

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Drawings

Housing 3 Housing 4 32.5 20 CURTS 🖴 **#** 000080 - CURTIS 🖴 hat-rail Crail EN 50022 - 35 * 7.5 EN 50035 - G 32 apop adni 90 type code corordinates for screws 40:2: Housing 5 Connection scheme Housing 3, 4 resetpush reset botton - 000000 CURTIS 🙈 start Hours L1 and N may be changed. 45 4.8 **Connection scheme** Housing 5 resetfront-cut-out reset push DIN 43700 botton 2.0.5 2 Hours 0.8 mm panel thickness L1 and N may be changed. Type selection model housing voltage specials logo frequency (order marking) 2 3 1 0 0 0 0 A housing: 3 48x48 / DIN rail mounting / screw terminal connections voltage: nominal voltage absolute limits 4 48x48 / built-on mounting / screw terminal connections 21 12 to 60 VDC 9,6 to 66 VDC DIN 24x48x31.5 / front panel mounting / screw terminal connections 21 12 to 60 VAC 9,6 to 66 VAC 50 / 60 Hz

CURTIS INSTRUMENTS (UK) LTD

no reset

electrical reset

manual and electrical reset

Technical modifications reserved! (9/93)

72 to 253 VAC

15

80 to 230 VAC

50 / 60 Hz

Tel.: (0604) 29755

reset: