CSV2

Multifunction time relay, internal or external potentiometer operation, DC solid state output, 8 ms ... 10 h, DIN Rail mounting according to DIN 43 880

Type: CSV2/DC24V R

Multifunction time relay
DC solid state output
DC 24 V operating voltage
Option for external fine adjustment time range potentiometer
LED state indicators for output and control input

Maximum output load 1.5 A / 30 V

Time functions and related connection diagrams (Function diagrams: refer to page 130)

Time data
7 partial time ranges, t_{max} (rotary switch) 0.1, 1, 10 s / 1, 10 min / 1, 10 h
Fine adjustment range (rotary knob) t_{min} ... t_{max} 0.8 ... 10
Time range tolerance t_{min} -30 % ... +0 % / t_{max} -0 % ... +30 %
Repetition accuracy ± 0.3 % or 10 ms
Response time, power on, on A1 ≤ 10 ms
Min. trigger pulse on B1 10 ms
Reset time B1 (AC/DC) ≤ 10 ms
Voltage failure buffering ≥ 10 ms

Output
Type: Power MOS FET High side switch
Rated operational current 1.5 A
Max. inrush current (100 ms) 4 A
Max. switching voltage 30 V
Leakage current ≤ 100 µA
Inductive switch-off voltage protection Free wheeling diode + 33 Ω

Power supply and control input
Nominal voltage DC 24 V
Operating voltage range 15 ... 30 V
Power consumption ≤ 0.7 W
Control current into B1 ≤ 9 mA
Allowed residual current into B1 ≤ 1.5 mA
Trigger threshold voltage on B1 typ. 9 V

General Specifications
Ambient temperature storage /operation -40 ... 80 °C / -25 ... 55 °C
Ambient temperature, mounted side by side -25 ... 45 °C
Conductor cross section Stranded wire 2.5 mm², 2 x 1 mm²
Ingress Protection degree Housing: IP 40, terminals: IP 20
Max. Screw torque 0.4 Nm
Housing material / Weight Lexan / 50 g

Standard types CSV2/DC24V R

Accessories
External potentiometer 100k
(Panel mounting + scale):
Marking strip: Large SP-01/100k
Small BS-13G
BS-13K

Technical approvals, conformities

This issue replaces all previous issues. Availability, errors and specifications subject to change without notice.