

EM-75 DC-POWER CONTROLLER 12 - 30V 3A



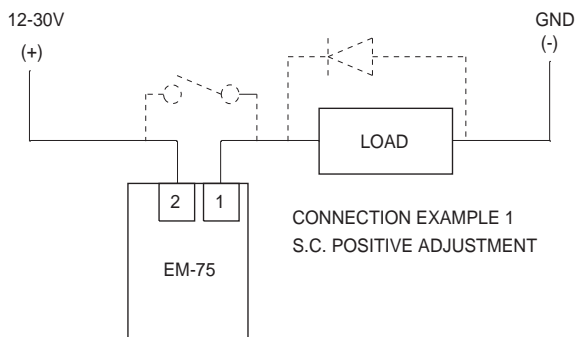
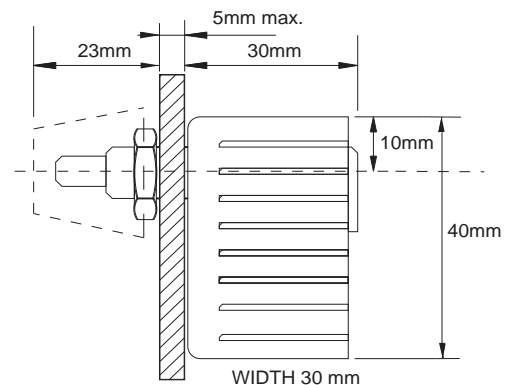
FEATURES:

- Load regulated adjustments
- Adjustable base level
- Two wire connection
- Small size
- High efficiency > 90 %
- Wide power range 0.5 - 80 W
- EMC -tested (no radio frequency interference)
- Panel mountable

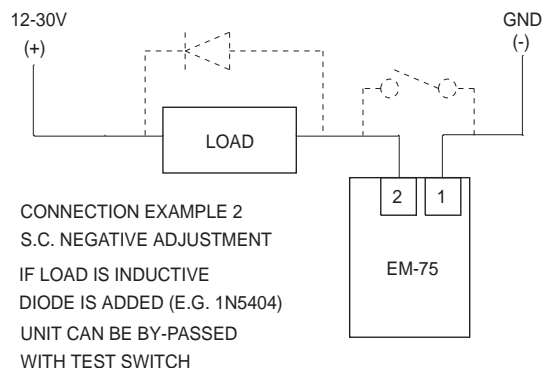
EM-75 is a low voltage DC-power control unit. Unit is connected in series with the load. Load can be any resistive load as light bulbs and resistors, with auxiliary diode even inductive loads as solenoids, valves and motors can be controlled as well. The power is adjusted with pulse ratio method (PWM) which permits high efficiency. The change of load does not have any effect on the adjustments. As an example, if part of the bulb load is turned off it does not effect the brightness of the rest of the light bulbs. This is supposing that the operating voltage does not change. The operating voltage can be DC-voltage or pulsating DC-voltage. The unit can be connected to + or to the - side of the load. The controller can be by-passed for light bulb tests. Power stage is protected against voltage surges, overloads and short circuits. Even the incorrect polarity does not damage the unit. EM-75 causes no interference on the radio frequency.

TECHNICAL DATA:

Supply	12...30 Vdc
Idle current	< 3 mA
Load capacity	3 A max.
Load	0.5 ... 80 W
Adjustment range	0 ... 98 %
Base level adjustment	0 ... 30 %
Operating frequency	approx. 250 Hz
Efficiency	> 90 %
Oper. ambient temp.	0...60 °C
Dimensions	40*30*30 mm
Weight	60 g



CONNECTION EXAMPLE 1
S.C. POSITIVE ADJUSTMENT



CONNECTION EXAMPLE 2
S.C. NEGATIVE ADJUSTMENT
IF LOAD IS INDUCTIVE
DIODE IS ADDED (E.G. 1N5404)
UNIT CAN BE BY-PASSED
WITH TEST SWITCH

