

Würth Elektronik ICS GmbH & Co. KG

Intelligent Power & Control Systems

Gewerbepark Waldzimmern · Würthstraße 1 · 74676 Niedernhall · Germany

Phone: +49 7940 9810-0 · Fax: +49 7940 9810-1099

ics@we-online.com · www.we-online.com/ics



Central Electrical Unit

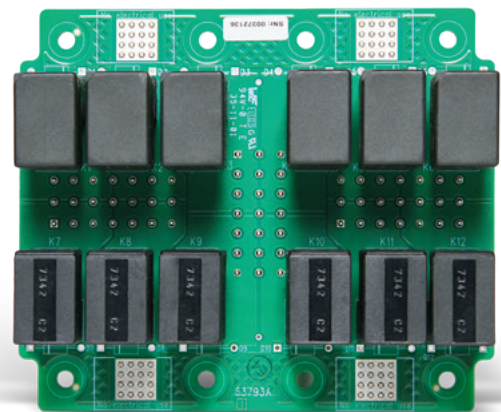
0F-12 μ R Module

Ref. ICS-95890

REDLINE

Features

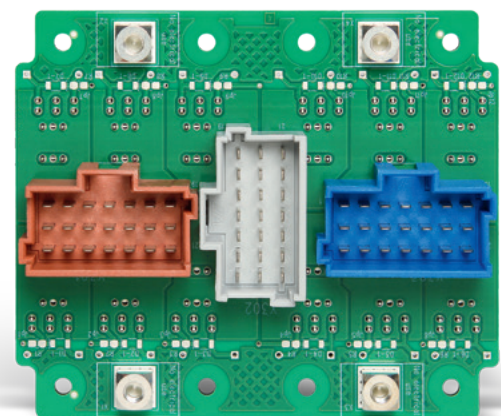
- Power supply 12 V or 24 V
- 12 micro relay bases
- Footprint for fly wheel diodes (in THT or SMD) and for zero Ohm resistors (in SMD)
- JPT/MCP compatible, 3 row, 21 way connectors for inputs / outputs on the rear side of the module
- Based on the REDline product range, this board will give you the ability to switch up to 15 A on each relay
- Each connection to the relay is available in the JPT connector
- Solder bridges gives you the possibility to join all the coil's ground signals
- The dimensions of the module are twice of size for the REDline additional module



Front View

Options

- Fly wheel diode (SM4007) in parallel of relay coil
- Solder bridges to interconnect ground signal
- Installation of standard micro relays 12 V or 24 V with resistors



Rear View

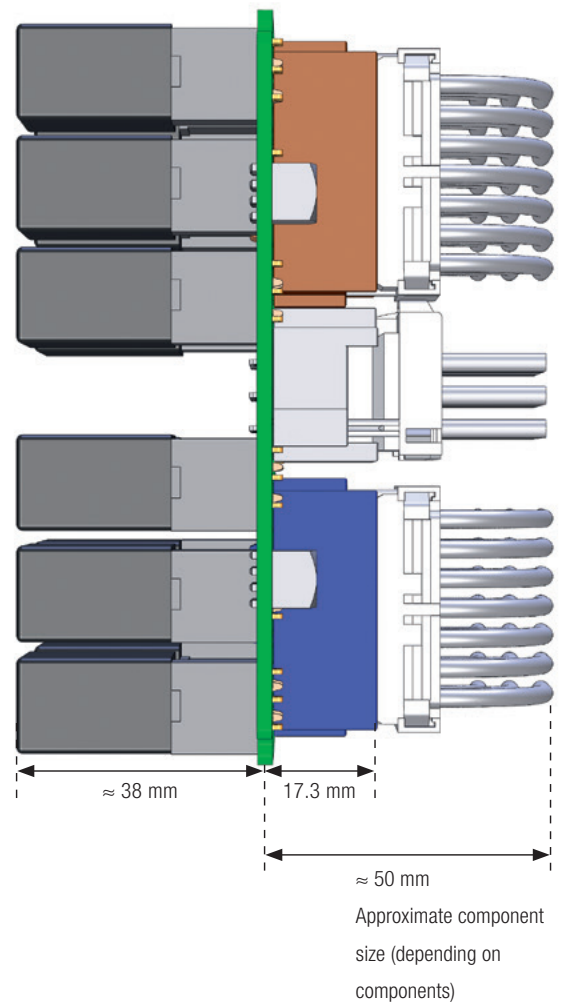
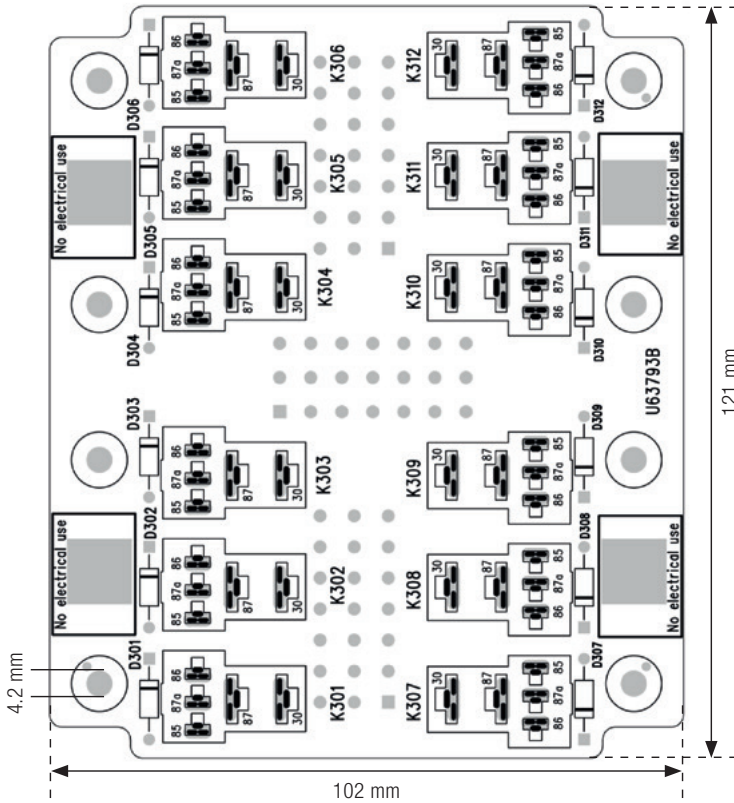
Applications

Switching of common functions such as lights, fuel pump, radio, clock, accessories, HVAC, ABS, lightning etc.

Central Electrical Unit

0F-12 μ R Module

Dimensions



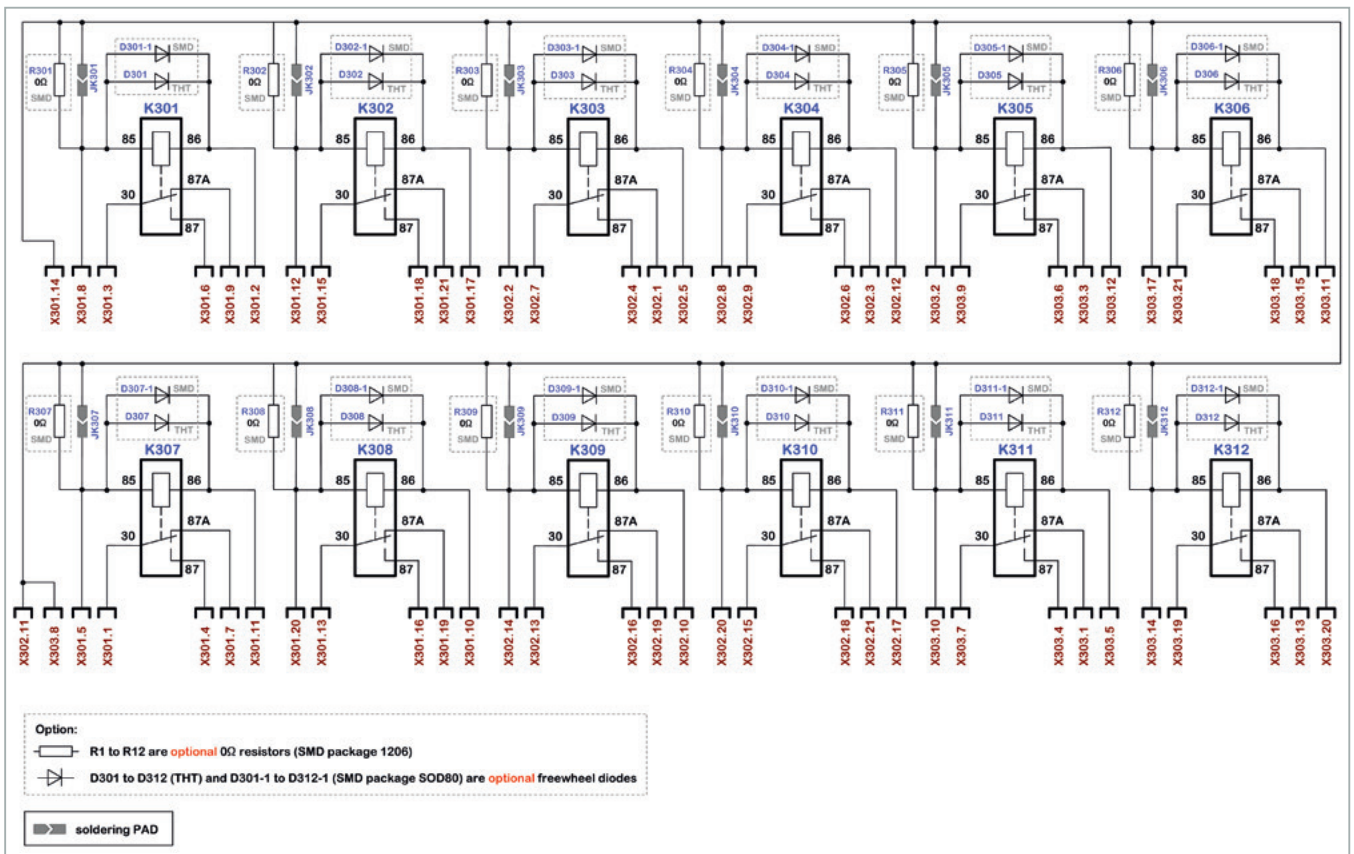
Technical Data

Temperature range	-40 °C to +85 °C
Max. supply current per circuit (all circuit loaded)	Max. 15 A by 60 °C ambient
Relay's coil connection, Input/output connection	JPT/MCP compatible, 3 row / 21 way colored connectors

Central Electrical Unit

0F-12 μ R Module

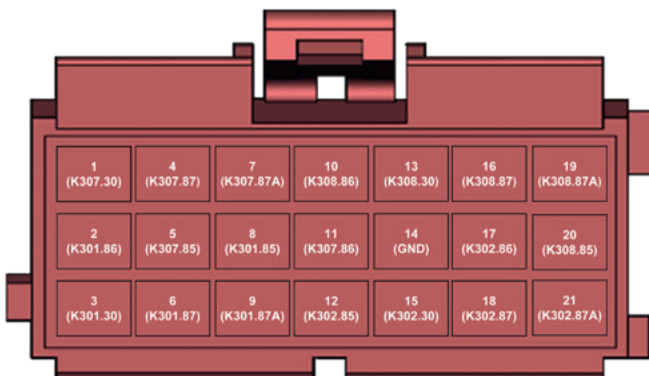
Electrical Schematic



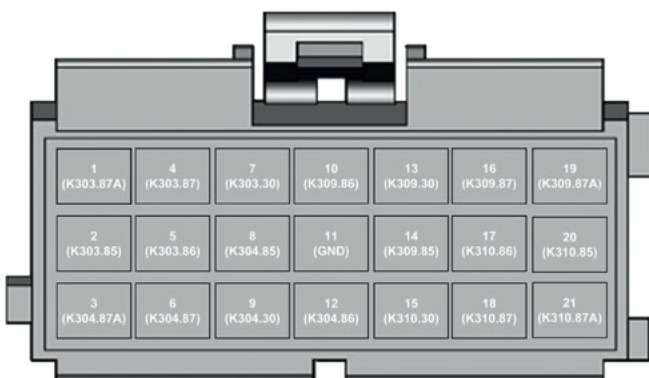
Central Electrical Unit

0F-12 μ R Module

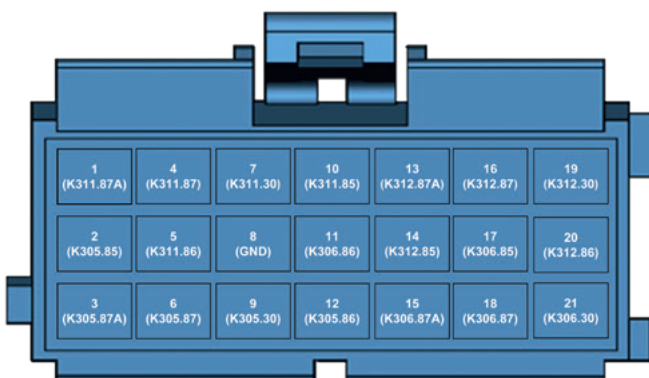
Connector: JPT 21 (X301)



Connector: JPT 21 (X302)



Connector: JPT 21 (X303)



Female connector required for cable harness connection (view on cable entry)

Pin outs on the connector correspond to the associated component on the board.
(e.g.: K311.30 is connected to pin 7 from connector X303)