

# REDLINE POWER BOX MEDIUM

Standard version



The **REDline Power Box Medium** is a compact solution for power supply, protection and control of optional functions in vehicles.

**It allows you to:**

- Reduce the size of the central electrical unit
- Reduce the complexity of the wiring harness
- Save space in the vehicle, thanks to decentralised positioning

**Standard version of the product is presented on the first three pages of this document. Customisation of the box content can be realised according to your requirements. Refer to page 4 and contact us for more information.**

**The advantages of our REDline Power Boxes summarised:**

- **Robust & durable:** Thanks to high IP levels and cable harness reduction
- **Fast project processing:** Due to a broad range of standardised housings and a structured and established product development process
- **High economic efficiency:** Resulting from simplified installation and maintenance as well as low tooling and engineering costs
- **Convincing service concept:** We support you from the first idea up to serial production of your tailor-made solution and beyond
- **Compact & modular architecture:** Thanks to the modular building block system, the customer-specific configurable PCB and the efficient use of space

Mechanical data	
Box dimensions	167 x 142 x 74 mm
PCB area for component placement	80 x 70 mm
Operating temperature	-40 °C up to +85 °C
IP protection class	IP64
Specifics	Compression limiter

Electrical data	
Power inputs	1 x M6 Powerelement 1 x M8 Powerelement
Connector	LeavySeal 31-pin
Components	8 x MINI fuses 3 x ATO fuses 1 x MAXI fuse 3 x Micro relays 1 x Power relay

Mating connectors			
Pins	Coding	Standard	VO Material
31	E	1-1564297-6	1-2208685-6

This item is a standard product, please consider the relevant datasheet notes. The user is responsible for the product's functionality in its purposed system environment. Technical content may be modified and changed by Würth Elektronik ICS GmbH & Co. KG without any notice.

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Qualification		
Test methods	Qualification norm	Descriptions
IP protection class	ISO-20653	IP64
High temperature soak	ISO 16750-4	+95 °C
Temperature cycle	ISO 16750-4	-40 °C / +105 °C
Temperature shock	ISO 16750-4	Temperature: -40 °C to +95 °C 100 cycles of 6 h
Humidity soak	ISO 16750-4	1 cycle of 240 h
Humidity icing cycle	ISO 16750-4	Relative humidity: 96 % Temperature: -40 °C to +95 °C
Mechanical shock	DIN EN 60068-2-27 / ISO 16750-3	Various test parameters
Chemical test	ISO 16750-5	AA, AB, BA, BC, BD, BE, CC, CD, DF, EA, DJ, YY

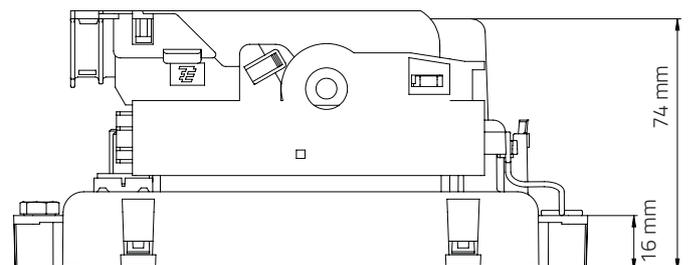
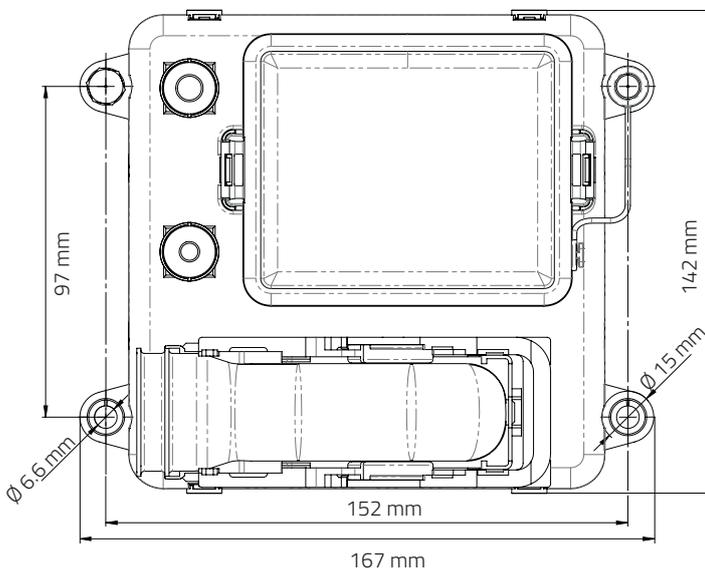
Torque fixing point	
Compatibility	Up to ISO class 10.9 screws

Torque electric connection	
M6	max 3.9 Nm
M8	max 8.0 Nm

Order Information	
REDline Power Box Hybrid Standard	
Unequipped (without fuses and relays)	ICS-103038
Equipped with 12 V fuses and relays	ICS-103038-12V
Equipped with 24 V fuses and relays	ICS-103038-24V



## Box dimensions





# REDLINE POWER BOX MEDIUM

Customisation possibilities

**Do you want to customise the REDline Power Box Medium content according to your needs? With the following three steps, we help you to get your tailor-made solution.**

# 1

Choose desired inputs and outputs according to your electrical schematics

### Inputs / Outputs

Threaded: M5, M6 or M8
RadlokTM: 3.6, 5.7 or 8
LED indicator
Closed input

### Compatible connectors

Pins	Coding	Standard	VO Material
31	E	1-1564297-6	1-2208685-6
39	E	5-1718321-3	5-2208684-3

# 2

Select the components to be integrated and get the PCB designed according to your electrical schematics



# 3

Choose your additional component options

### Component options

Cover leash
Fuse tester
Fuse puller
Component sticker
Component on lid

**Profit from different standard box variants and component options for advanced functions and requirements.**

Box variants	Part number WE ICS		
	Unequipped (without fuses and relays)	Equipped with 12 V fuses and relays	Equipped with 24 V fuses and relays
REDline Twin Standard	ICS-103040	ICS-103040-12V	ICS-103040-24V
REDline Hybrid Standard	ICS-103037	ICS-103037-12V	ICS-103037-24V
REDline M Plus Standard	ICS-103263	ICS-103263-12V	ICS-103263-24V
REDline Medium Standard	ICS-103038	ICS-103038-12V	ICS-103038-24V
REDline Mini Standard	ICS-103039	ICS-103039-12V	ICS-103039-24V
REDline 6F Standard	ICS-104012	ICS-104010	ICS-104011

**Are you looking for a box with special requirements?**

No problem, just contact us! We develop your customer-specific product according to the motto: more than you expect. From the idea through to the start of serial production.



Twin



Hybrid



M Plus



Medium



Mini



6F

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