

Power relays for professional use

Monostable, bistable, intelligent



Technical information

MPR20, MPR10, HPR10 power relays

The **MPR20**, **MPR10** and **HPR10** power relays are innovative products designed for switching high current loads and for battery management. They can be installed in both 12V and 24 on-board electrical systems. Due to their compact and extremely robust enclosures and versatile mounting options, they are ideal for demanding applications in utility vehicles.

The **MPR20** is the most energy-efficient monostable power relay. The reduction

of the holding power and the pull-in power allows direct connection to the controller and provides additional cost and environmental advantages.

The **MPR10** is the lightest bistable high current relay. Materials of superior quality and a specially compact and light-weight design allow extremely flexible use in utility vehicles.

The **HPR10** is the most intelligent power relay. An active electronic control unit

for signal conditioning completes the benefits. Other functions such as level or pulse control, voltage monitoring etc. can be configured individually as per customer's request. Please visit our online relay configurator.

www.e-t-a.de/relay_configurator

Technical data

Relay type	MPR20 monostable	MPR10 bistable	HPR10 intelligent
Voltage ratings	DC 12 V / DC 24 V		
Current ratings	100/200/300 A		
Ampacity	2 x I _N 20s		
Typical life (mechanical)	> 100,000		
Temperature range	-40 °C...+85 °C		
Pull-in current 12 V/24 V	2.4 A	4.5 A/2.3 A	4.5 A/2.3 A
Release current 12 V/24 V	–	4.5 A/2.5 A	4.5 A/2.5 A
Holding current 12 V/24 V	0.2 A/0.1 A	0 A	8 A/5 A

Your benefits

- **Reduced power consumption and CO₂ emission values**
due to minimal energy requirement
- **Flexible installation for demanding applications**
due to light, compact, robust and water- and dust-proof design (IP67, IP6k9k)
- **Maximum endurance and permanent availability**
due to wear-free switching operations

Typical applications

- Buses, trucks, construction machinery, agricultural vehicles and forestry equipment as well as specialty vehicles
- Air-conditioning, compressors, battery management, exhaust aftertreatment SCRT

Standards

- ISO 16750
- IATF 16949
- ECE R118
- ECE R10
- ASIL upon request



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