E-T-A EDX10 special relay

Description

The EDX product family (electronic diverse components) bundles components that cannot be classified as classic relays, but whose functions are built into a relay housing.

The EDX10 features a relay housing with built-in diodes. It is particularly used for retrofit or rework or vehicles.

The EDX10 is available both in a ready configuration with two or four diodes and a period inverse peak voltage of 600 V or 1300 V and with individual population on the occasion of a customer-specific project.

This diode array is suitable for standard automotive relay sockets to ISO 7588 (ISO Mini).

EDX10

Applications

EDX10 is available for DC 12 V and DC 24 V applications.

Scope of applications:
- trucks
- buses
- agricultural vehicles and forestry equipment
- construction machinery and emergency cars

Typical applications:
- rectifier diodes
- bridge rectifiers
- de-coupling of signals

Benefits

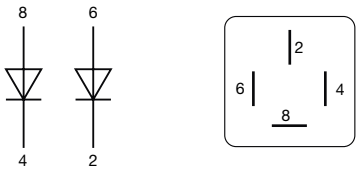
- Easy and quick mounting during vehicle retrofit. The diodes can easily be mounted in the relay socket. No extra space required.
- Time savings during maintenance of devices. Defective diodes can easily be replaced in the relay housing.

Qualifications

Degree of protection	IP 52
Housing material	PA6GF
Blade terminals	A6.3 x 0.8 DIN 46 244 CuZn 37 F37

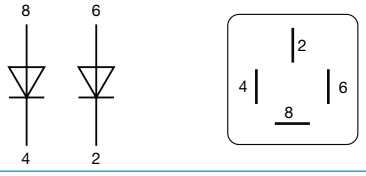
Technical data – EDX10-310-000-000-2x3 A/1300 V

Voltage ratings	12 V / 24 V
Operating voltage	9 V ... 30 V
Max. continuous current (individual d.)	approx. 2 A
Total current through diodes	4 A
Current load (individual diode)	3 A
Pulse current 8.3 ms (individual diode)	100 A
Voltage drop	typically 1.1 V at 3 A
Peak off-state voltage	1300 V
Degree of protection	IP52
Operating temperature	-40 °C … +85 °C



Technical data - EDX10-310-000-000-2x6 A / 600 V

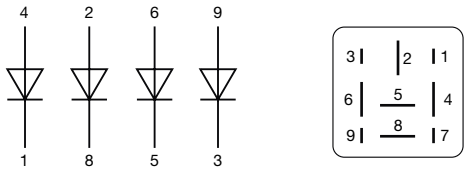
Voltage ratings	12 V / 24 V
Operating voltage	9 V ... 30 V
Max. continuous current (individual d.)	approx. 6 A
Total current through diodes	6 A
Current load (individual diode)	6 A
Pulse current 8.3 ms (individual diode)	100 A
Voltage drop	typically 0.9 V at 6 A
Peak off-state voltage	600 V
Degree of protection	IP52
Operating temperature	-40 °C … +85 °C



5

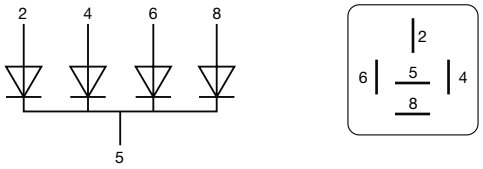
Technical data – EDX10-320-000-000-4x3 A / 1300 V

Voltage ratings	12 V / 24 V
Operating voltage	9 V ... 30 V
Max. continuous current (individual d.)	< 3 A
Total current through diodes	4 A
Current load (individual diode)	3 A
Pulse current 8.3 ms (individual diode)	100 A
Voltage drop	typically 1 V at 3 A
Peak off-state voltage	1300 V
Degree of protection	IP52
Operating temperature	-40 °C … +85 °C



Technical data – EDX10-330-000-000-4x3 A / 1300 V

Voltage ratings	12 V / 24 V
Operating voltage	9 V ... 30 V
Max. continuous current (individual d.)	approx. 3 A
Total current through diodes	4 A
Current load (individual diode)	3 A
Pulse current 8.3 ms (individual diode)	100 A
Voltage drop	typically 1.1 V at 3 A
Peak off-state voltage	1300 V
Degree of protection	IP52
Operating temperature	-40 °C … +85 °C



Order numbering code

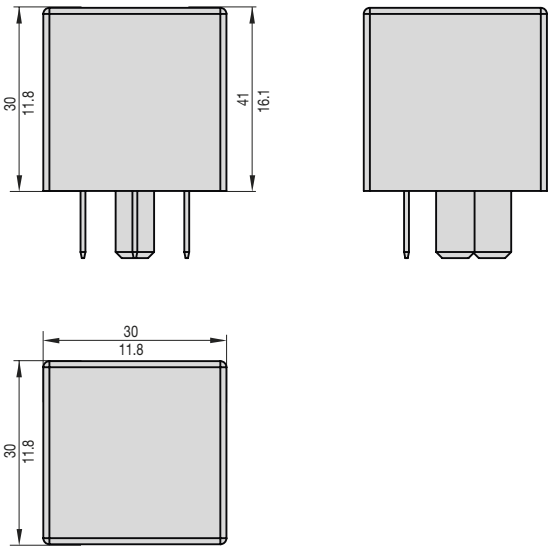
Type No.
EDX10 special relay
Operating voltage
3 12 V/24 V
Circuitry
1 type 1 (2 diodes)
2 type 2 (4 diodes)
3 type 3 (4 diodes - joint anode)
Option 1
0 without
Standard
000 standard
Custom designed versions
Project number - part 1
049 project index number according to region (international area code), e.g.
Germany +49 = **049**
France +33 = **033**
Portugal +351 = **351**
USA +1 = **001**
Project number - part 2
001 serial number
Continuous current per individual diode
2 x 3 A / 1300 V type BY255
2 x 6 A / 600 V type P1000
4 x 3 A / 1300 V type BY255
4 x 3 A / 1300 V type BY255

EDX10 - 3 1 0 -000-049-001- 2 x 3 A / 1300 V ordering example

This data sheet describes the standard product versions. Installation direction and internal connection of the diodes can be adjusted upon request.

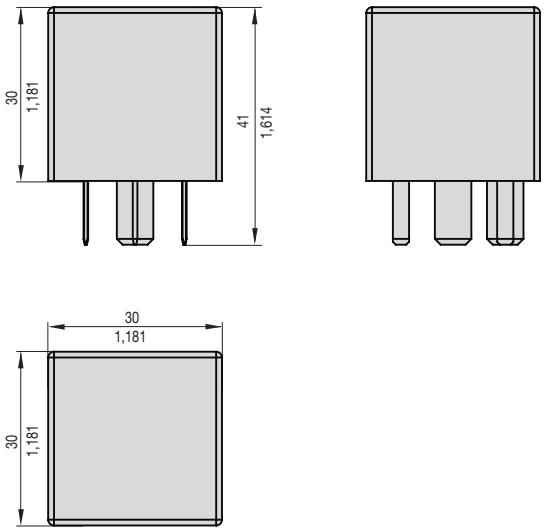
Dimensions type 1

4 PIN



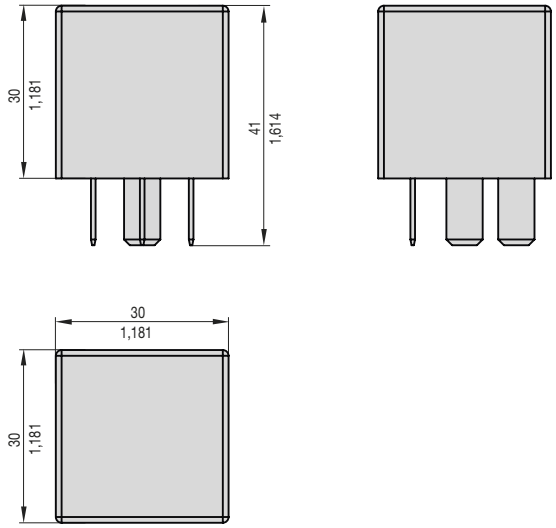
Dimensions type 2

8 PIN



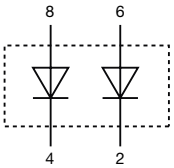
Dimensions type 3

5 PIN

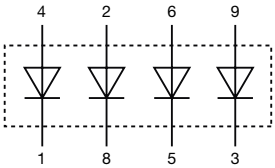


Schematic diagrams / pin assignment

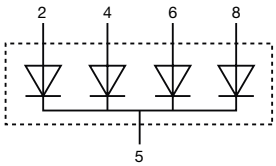
Type 1



Type 2



Type 3



5