

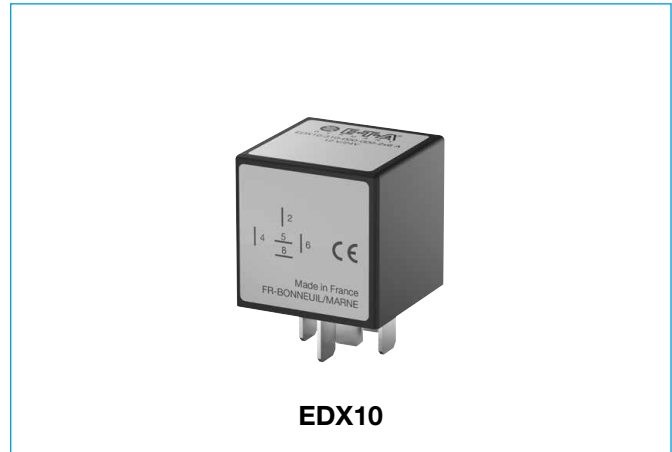
### Description

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).



### 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

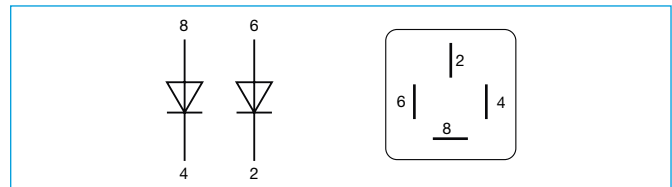
- Easy and quick mounting during vehicle retrofit. The diodes can easily be mounted in the relay socket. No extra space required.
- Time savings during maintenance of devices. Defective diodes can easily be replaced in the relay housing.

### Qualifications

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

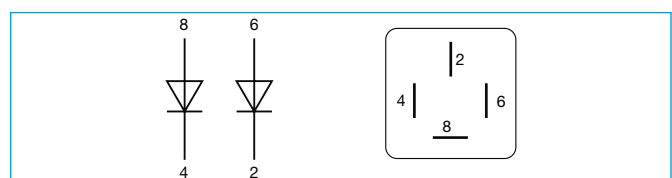
### Technical data – EDX10-310-000-000-2x3 A/1300 V

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



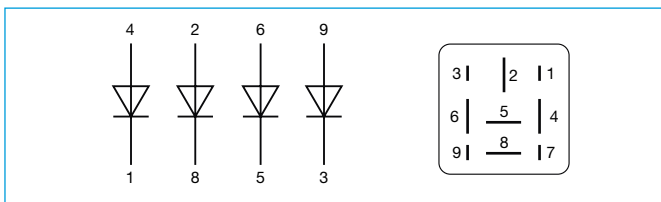
### Technical data - EDX10-310-000-000-2x6 A / 600 V

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



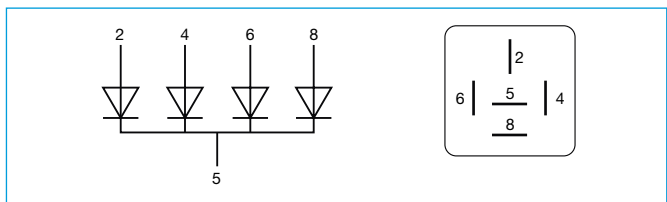
## Technical data – EDX10-320-000-000-4x3 A / 1300 V

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

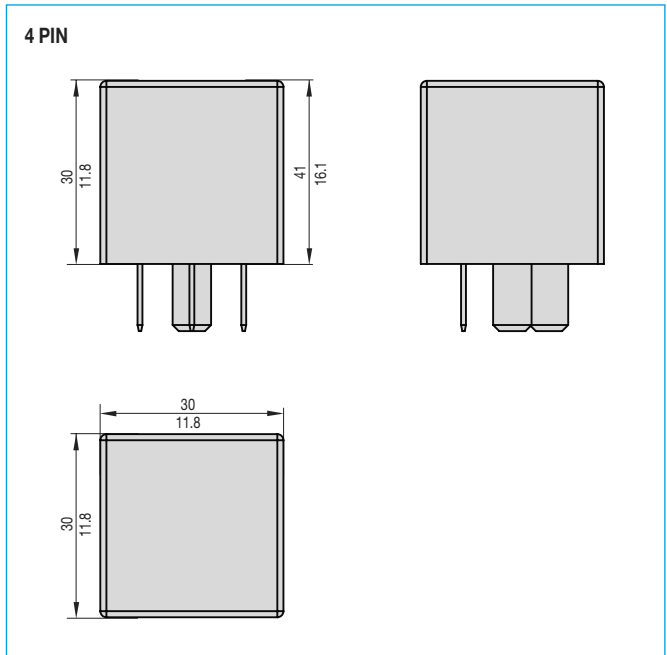
Voltage ratings	12 V / 24 V
Operating voltage	9 V ... 30 V
Max. continuous current (individual d.)	approx. 3 A
Total current through diodes	4 A
Current load (individual diode)	3 A
Pulse current 8.3 ms (individual diode)	100 A
Voltage drop	typically 1.1 V at 3 A
Peak off-state voltage	1300 V
Degree of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



## Order numbering code

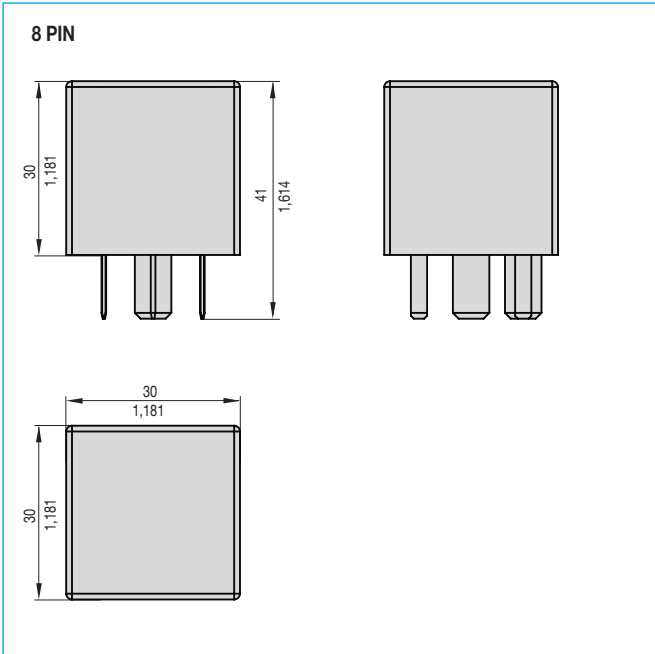
Type No.	special relay
EDX10	special relay
3	Operating voltage 12 V/24 V
1	Circuitry type 1 (2 diodes)
2	type 2 (4 diodes)
3	type 3 (4 diodes - joint anode)
0	Option 1 without
000	Standard standard
049	Custom designed versions Project number - part 1 project index number according to region (international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

## Dimensions type 1

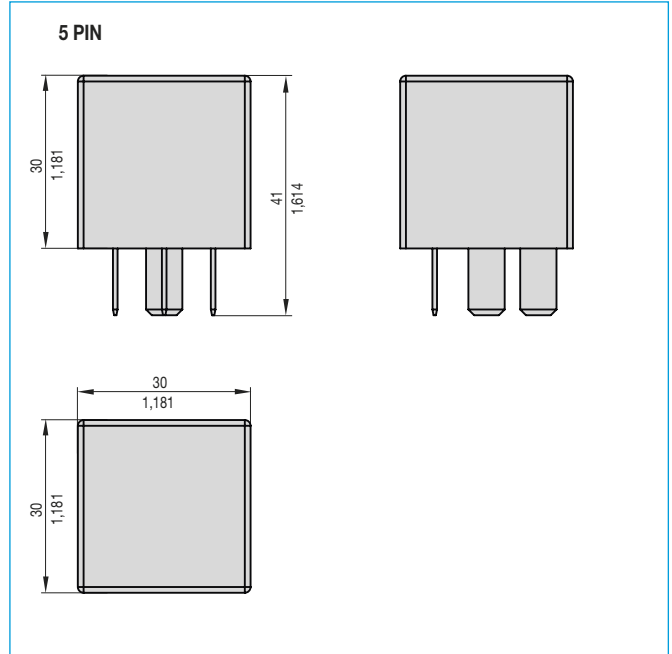


This data sheet describes the standard product versions. Installation direction and internal connection of the diodes can be adjusted upon request.

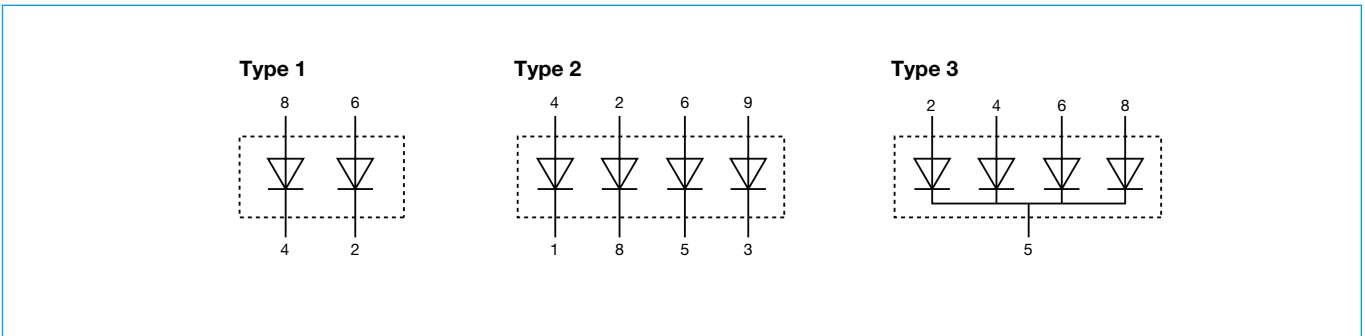
**Dimensions type 2**



**Dimensions type 3**



**Schematic diagrams / pin assignment**



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