

Electronic pulse-type relay Type 8597 for voltages 200 - 900 V DC

8597



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Description

The type 8597 electronic pulse relay is used as a connecting relay (interface) between the power supply for railway track systems and trolley buses operating with DC and voltages up to max. 1000 V at the control side and the associated signalling or control unit.

A typical application situation for this relay is use as a signal relay with actuation (actuation relay) via a contact wire contact.

The relay outputs one output pulse per switching-on contact. The duration of the output pulse is thus limited to a maximum of 500 ms, regardless of the duration of the input pulse. The connection between the duration of the input pulse and the duration of the output pulse, depending on the control voltage, can be seen in the attached graph. In practice, this means that contact can be made with certainty, almost regardless of the length of the contact wire contact and the speed (contact duration) at which the contact wire is travelled.

The large operating voltage range (= control voltage) means that the electronic pulse relay can be guaranteed to work as well when used as a normal switching relay (wiper relay). The effect of voltage drop-outs can be excluded within certain limits, regardless of the timing period.

A zero-potential changeover contact is provided as output at the relay.

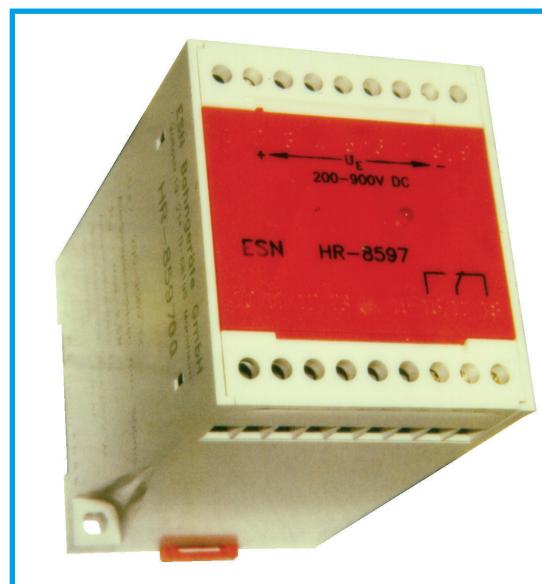
Application of the input voltage (control voltage) is also shown after the end of the output pulse period by an LED. In order to ensure maximum electric strength and to exclude environmental influences, the entire switching section of the relay is encapsulated.

Function

The type 8597 electronic pulse relay is a relay with an electronically clocked power supply (control voltage).

The latest electronic components provide the wide range of operating voltages while drawing the least possible amount of current. This guarantees a high level of safety and stability of the individual parameters and of the entire relay.

The special electronic switching also permits optimal adaptation to handle special application problems. (Please enquire.)



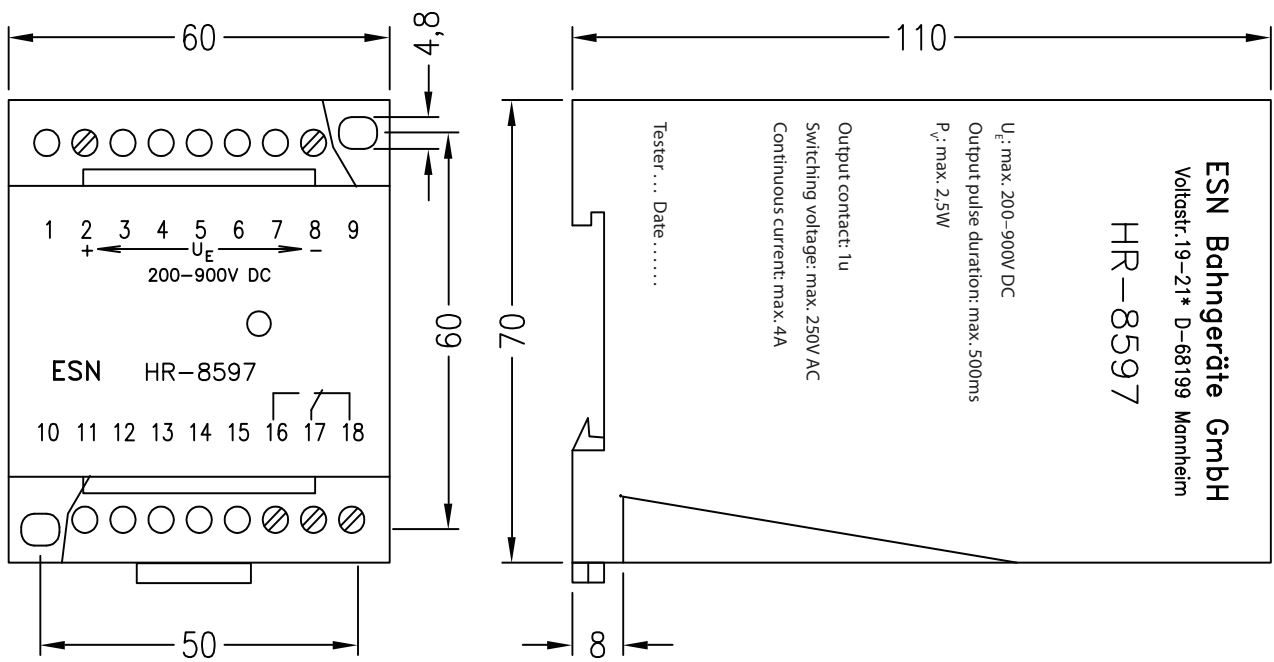
Technical data

Dimensions	WxHxD 60/70/110 mm
Housing	Polystyrene
Attachment	2 holes in accordance with DIN 43604 standard carrying rail in accordance with DIN EN 50022
Type of protection	Housing: IP 30 Terminals: IP 20 (Electrical switching completely encapsulated up to the terminals)
Ambient temperature	-20°C to +70°C
Control voltage	DC 200 V to 900 V (max. 1000 V)
Trigger value	≥ 200 V
Power drawn	max. 2.5 W
Operating voltage	= control voltage
Switch-on contact	Permanent contact or pulse-type contact min. duration 10 ms
Output	1 changeover contact (zero-potential) Voltage Current AC 250 V 4.0 A DC 110 V 0.5 A
Draw-in delay time	max. 10 ms
Contact duration (pulse-type contact)	limited to approx. 500 ms
Switching state display	to apply the control voltage (contact to switch on) by means of an LED
Test voltage	Input - output = 4 kV _{eff}

Ordering information

Type	Part No.
8597 00	320400

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Output pulse duration

