

PRODUCT INFORMATION

ZH842 H
Solid-state
high-voltage signalling relay



The solid-state high-voltage signalling relay ZH842 H indicates high-voltage being applied to the train line of railway vehicles. Mode of operation: The ZH842 H switches on a potential-free relay contact as long as the high voltage at the input terminals exceeds the threshold voltage.

Features:

- Identification of UIC 550 compatible voltages (1 kV 16 $\frac{2}{3}$ Hz / 1.5 kV 50 Hz / 1.5 kV DC / 3 kV DC) and 3 kV 50 Hz
- Meets insulation requirements for 3 kV DC (UIC 550) according to EN 50124-1:2001+A1
- Low power consumption during stand-by
- Potential-free switching output

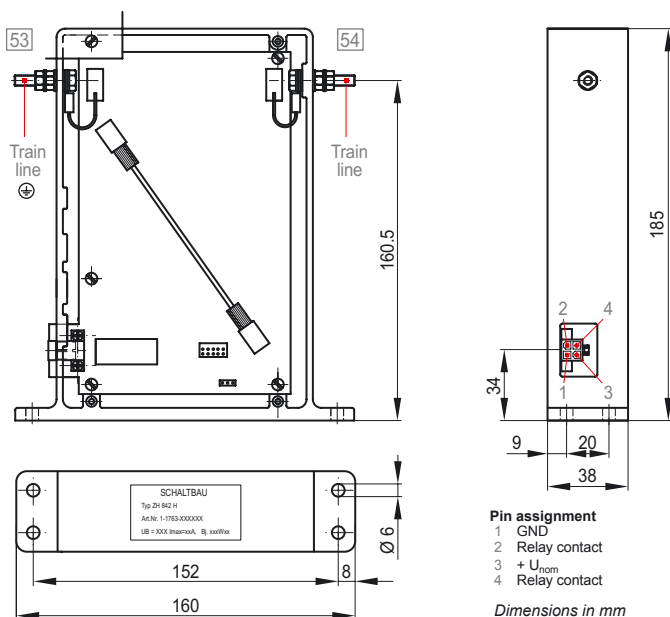
Application:

- Energizing battery driven electrical loads in railway vehicles only if the train line voltage exceeds the threshold voltage in order to conserve battery power

Standard:

- EN 50155 type test incl. insulation, EMC, vibration/shock

Dimension diagram



Specifications

Input voltage range to UIC 550	0 ... 3,000 V AC, 16 $\frac{2}{3}$... 50 Hz 0 ... 5,000 V DC *
Threshold voltage	> 670 V AC, 16 $\frac{2}{3}$... 50 Hz > 610 V DC
Control voltage U _{nom}	24 / 110 V DC to UIC*
Power input from the battery	< 3 mA, typical
Maximum switching capacity Potential-free relay contact	U _{nom} = 24 V DC: 4.0 A U _{nom} = 110 V DC: 0.2 A
Temperature range	-40° C ... +85° C
Vibration, shock	IEC 61373
Degree of protection (IEC 60529)	IP20
Dimension (L x W x H)	(160 x 185 x 38) mm

* others on request