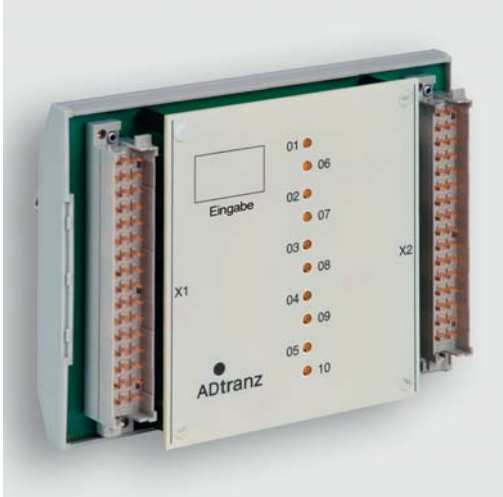
Relay Module



Identification	Type	GVT7550753R0102 ABB
	Part-No.	716078

Product version	
Datasheet version	02

Use/Application/Properties	
Description	This tenfold coupler is designed for the output coupling level. Activated via DC 24 V. 1 NC contact and 1 NO contact per channel are available on the output side.

Input	
Rated voltage U_N	DC 24 V
Rated current (at U_N)	300 mA
Status indication LED	LED yellow, parallel to coil
Protection device Input	Reverse voltage protection Free-wheeling diode

Output	
Relays per module	2 × 5
Switching voltage	AC/DC 110 V
Switching current	AC/DC 2 A
Switching capacity	274 VA
Protection device output	none
Switch-on delay	typ. 10 ms
Shutdown delay	typ. 3 ms

General	
Connection type	2 × 48 pin plug connectors (DIN 41612 type F)
Relay type	ELESTA SIS 112 24VDC SP H321486
Rated insulation voltage	150 V
Degree of pollution	2
Over voltage category	III
Contact type	1 NC contact, 1 NO contact

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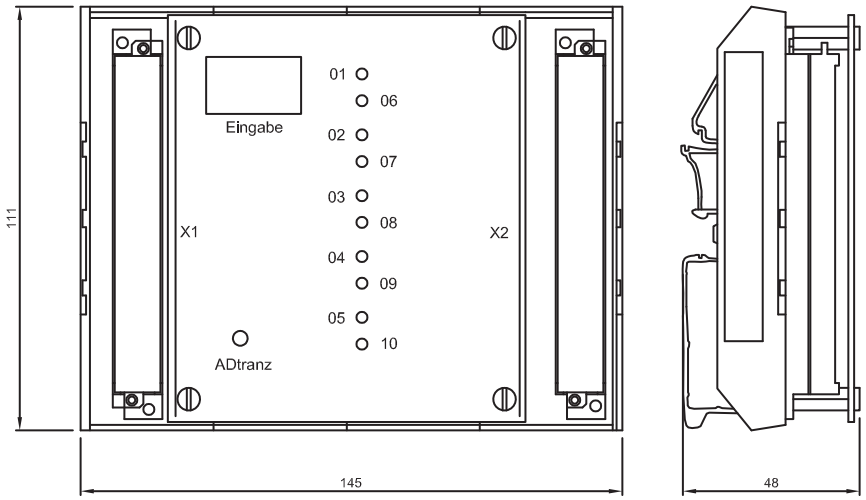
Rated isolation voltage input/output	1.8 kV_{eff}
Mechanical service life	approx. 10×10^6 operations
Operation temperature range	-40 °C … +70 °C
Storage temperature range	-40 °C … +85 °C
Dimensions (w × h × d)	145.0 × 111.0 × 48.0 mm
Weight	0.447 kg/piece
Form	Varioprint

Standards	**EN 50155:2017:** Railway applications – Rolling stock – Electronic equipment (testing according chapter 13.3 table 12) **EN 50121-3-2:2016:** Railway applications – Electromagnetic compatibility – Part 3-2: Rolling stock – Apparatus **EN 50124-1:2017:** Railway applications – Insulation coordination – Part 1: Basic requirements – Clearances and creepage distances for all electrical and electronic equipment **EN 61373:2010:** Railway applications – Rolling stock equipment – Shock and vibration tests **EN 45545-2:2013+A1:2015:** Railway applications – Fire protection on railway vehicles – Part 2: Requirements for fire behaviour of materials and components **HN_Isolationsprüfung:2018:** Company internal standard – Insulation test

Failure Rate Prediction (MTBF)

Standards	Electronic components – Reliability – Reference conditions for failure rates and stress models for conversion: EN/IEC 61709 Failure Rates of Components – Expected values: SN 29500
Failure rate at +45 °C	4006 fit
Failure rate at +45 °C	249644 h
	1 fit equals one failure per 10^9 component hours
	The indicated temperature is the mean component ambient temperature.
Comments	The results are valid under following conditions: Automotive environment or industrial areas without extreme dust levels and harmful substances Continuous operation 8760 h per year

Dimensions



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Circuit diagram