AHD-R101
Relay station with 15 relays and serial control

- ***Reduction of cabling of spatially separated systems***
- ***Control of 14 switching outputs with change-over contacts***
- ***Separate error output***
- ***Universally useable up to 230 V AC, 3 A / 30 V DC, 2 A***

The relay station AHD-R101 is a microprocessor-controlled device with 2 serial inputs and 15 relay outputs (14 freely available).

Depending on the version, AHD-R101 is compatible with the data protocols of the following Böning components:

- Universal data station AHD-DPU 9
- Data station AHD 882
- Analogue data station AHD-SAS 15
- Earlier versions on request (Spareparts)

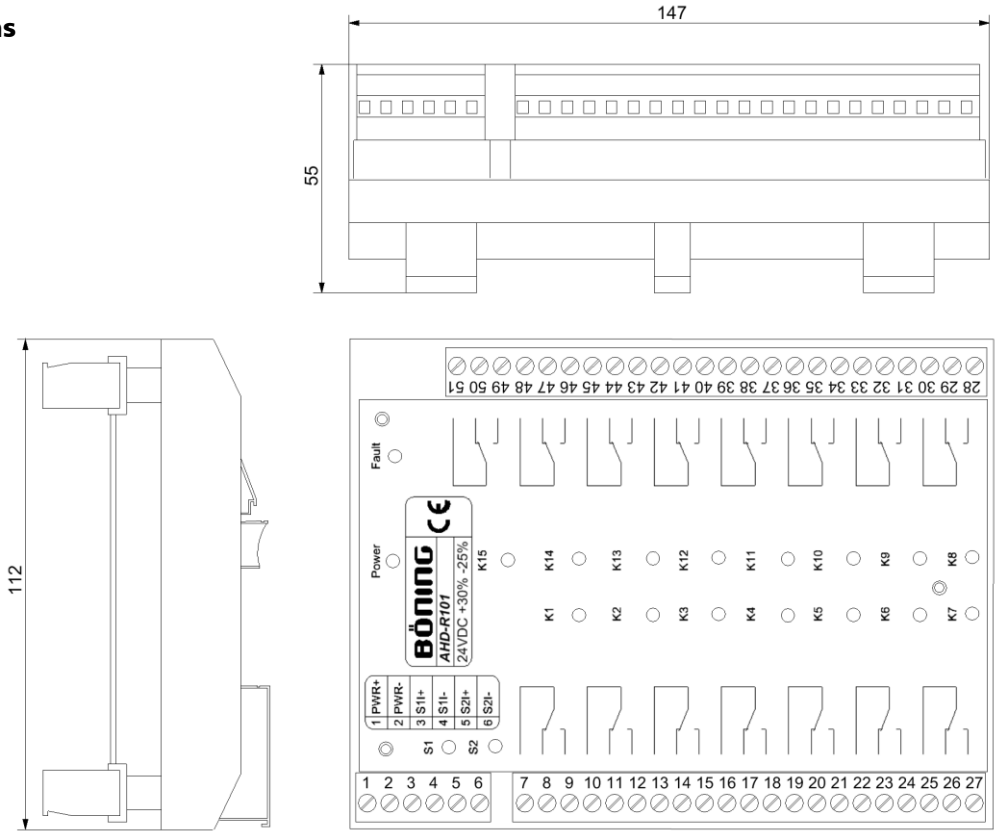
The electronic card of the relay station AHD-R101 is installed in an open plastic housing and protected with an aluminium front panel. The device is designed for rail mounting on TS32 and TS35. Connection is made via pluggable connectors with a total of 51 screw terminals. All relays are designed as potential-free change-over contacts with 3 terminals each.

Technical data

Power supply:	24 V DC (+30% / -25%)
Power consumption:	Max. 320 mA at 24 V DC
Operating temperature:	-10°C...70°C
Storage temperature:	-30°C...85°C
Weight:	Approx. 0.550 kg
Degree of protection:	IP 10
External dimensions:	147 x 112 x 55 mm
Inputs:	2 x serial (Optocoupler)
Outputs:	15 x change-over contacts, max. 230 V AC / 3 A or 30 V DC / 2 A - K1...14 freely available - K15 = fault contact (NC/NO)
Installation:	Mounting rail TS 32 and TS 35
Approvals:	DNV, CRS, LR, RS

BÖNING
SHIP AUTOMATION

Dimensions



Device Versions

Art.-No.	Label	Variant	Function / Description:
14754	AHD-R101 (AHD-DPU 9 / AHD 882, No Hold)	A	**Data source = AHD-DPU 9 or AHD 882:** Data is read via S1, after failure the fault contact opens (K15 is released) and relays K1..K14 also release.
14753	AHD-R101 (AHD-DPU 9 / AHD 882, Hold)	B	**Function same as version A with the following difference:** in the case of a data failure the relays K1..K14 are kept in their last state
14756	AHD-R101 (AHD-DPU 9, Double Serial)	C	**2-channel version for redundant systems, data source = AHD-DPU 9 or AHD 882:** - Data is read by default from S1, after data failure at S1 the system listens to S2 and opens the fault contact (K15 is released) - As soon as S1 sends valid data again, it is immediately processed again - If S1 and S2 do not send any data for approx. 5 s, all relays K1...K15 release
18584	AHD-R101 (AHD-DPU 9, Double Serial 2)	D	**Function same as version C with the following differences:** - The error contact only opens after failure of both data sources (K15 is released) - If the data is read via S2 due to an inactive S1 channel, the processing of this data is delayed by approx. 2 s after reactivation of S1.

Versions for use with AHD-SAS 15

15315	AHD-R101 (AHD-SAS 15, Hold)	E (V1.53)	**Data source = AHD-SAS 15:** Function same as B, but AHD-SAS 15 compliant (Relays K1..K14 are kept in their last state in the case of a data failure.
15463	AHD-R101 (SAS 15, No Hold)	F (V1.52)	**Data source = AHD-SAS 15:** Function same as A, but AHD-SAS 15 compliant (relays release after data failure)

Alternative earlier variants are available on request (for service / spare part needs)