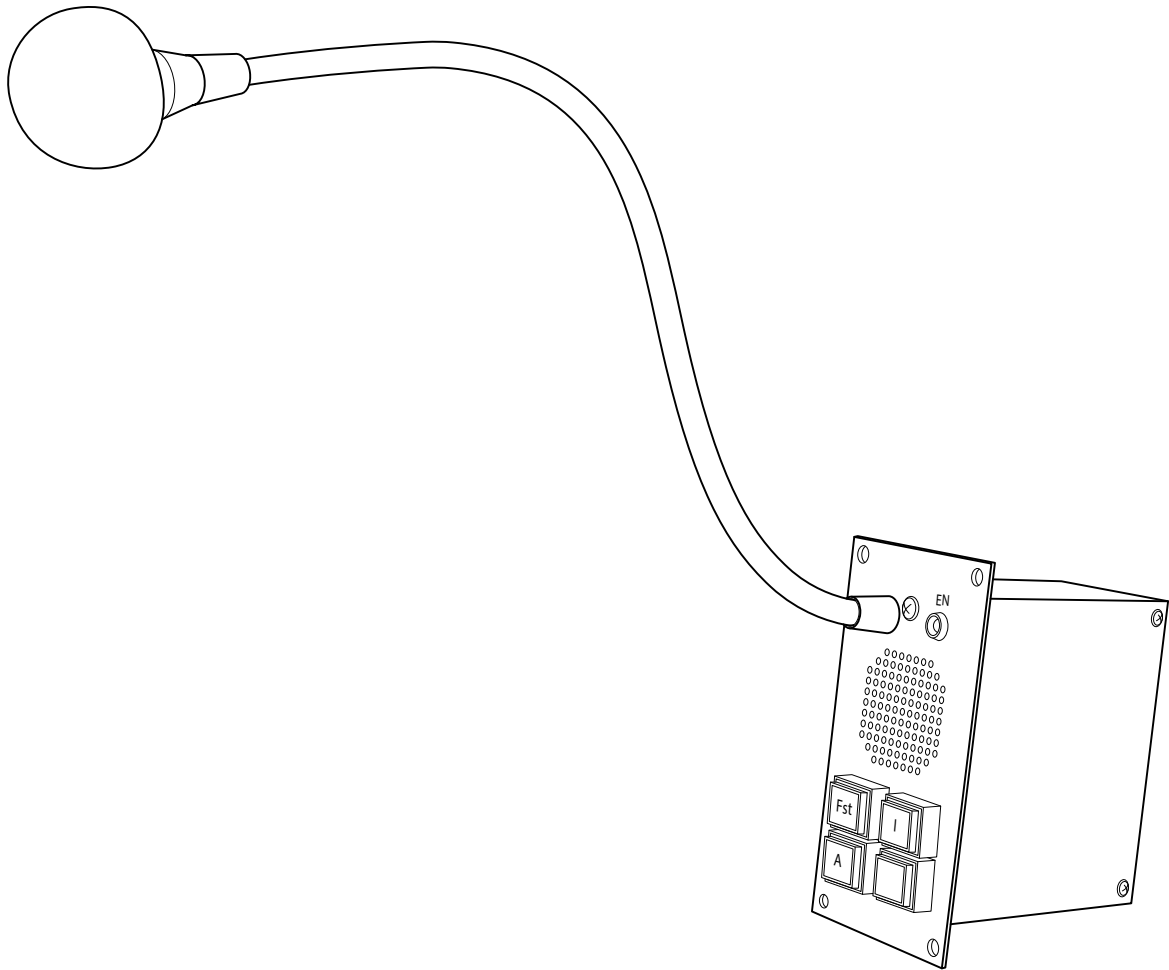
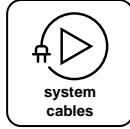
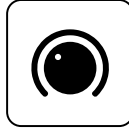
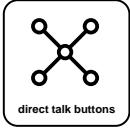


Driver intercom

for locomotives & railcars for local and freight traffic



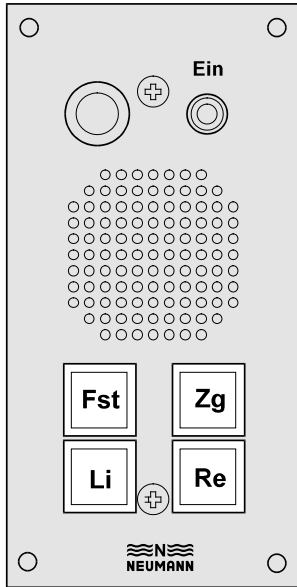
Technical series release
according to RTF22/01/00
of DB Regio

SAP-Nr. 689 105

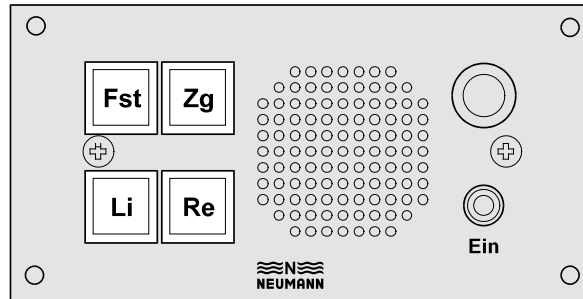
Released for locomotives: BR 141, 234

SAP-Nr: 669 291

Released for locomotives: BR 110, 113, 219

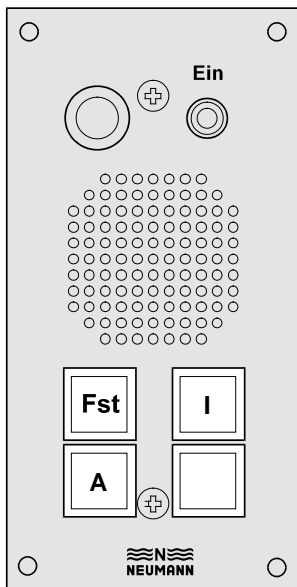


4 600 0

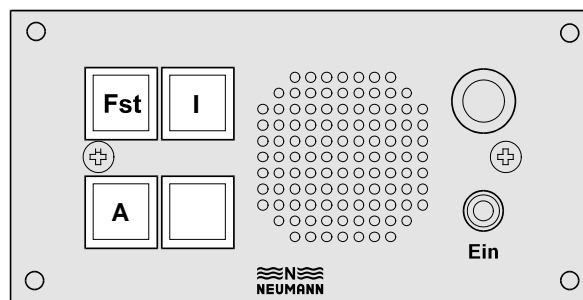


4 601 1

ÖBB Driver intercom



4 616 7



4 615 6

4 6XX X

Driver intercom
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NEUMANN

Bewährte Neumann Elektronik Qualität

Conforms to UIC 568 standard

Four direct talk keys

Horizontal installation or vertical installation

Listening to mandatory announcements

Loudspeaker announcements from the train driver to the passengers

Internal voice connections with a second driver intercom

**Possibility of listening to radio conversations
and announcement texts of a voice recorder**

**Connection of two S-Bahn hand-held microphones
(L.-No. 04 689 7) or similar.**

Automatic loudspeaker switch-off

Maintenance-free

Intercom station is prepared for use by DB AG

Intercom versions available for ÖBB

40-pole LAR connector, a separate earth connection

Controls for microphone sensitivities and loudspeaker volume

**The electrical connections are realised with the help of the 40-pin
connector known from the LAR78 system**

Directly connectable to the UIC through line

Fire protection tested according to DIN EN 60695-2

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Driver intercom
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The driver intercom is intended for installation in traction units (locomotives, railcars) and control cars of local rail traffic.

The microphone unit is designed in chassis construction for installation in control desks or consoles. A gooseneck microphone, a loudspeaker, four speech keys and a green signal light are mounted on the front panel. The required electronics are housed on three circuit boards inside. The rear panel contains a 40-pin LAR connector, a separate earth connection, controls for microphone sensitivity and loudspeaker volume and a fuse holder with fuse.

Configuration

| | | |
|-------------------|-------------------------|----------|
| 4 600 0 / 4 615 6 | Horizontal installation | DB / ÖBB |
| 4 601 1 / 4 616 7 | Vertical installation | DB / ÖBB |

Technical data

| | |
|--------------------------------------|---|
| Weight | 1.250kg |
| Housing dimensions (W x H x D) | 146mm x 74mm x 110mm |
| Connection | 40-pin LAR connector |
| Housing colour | Black silk matt (RAL 9005) |
| Nominal operating voltage | DC 24V |
| Permitted operating voltage range | DC 18V ... DC 33V |
| Permitted temperature range | -40° ... +70° C |
| Power consumption | 45 mA ± 5% (Without Operation) ca. 250 mA (Operation at medium speech level) |

Microphone amplifier

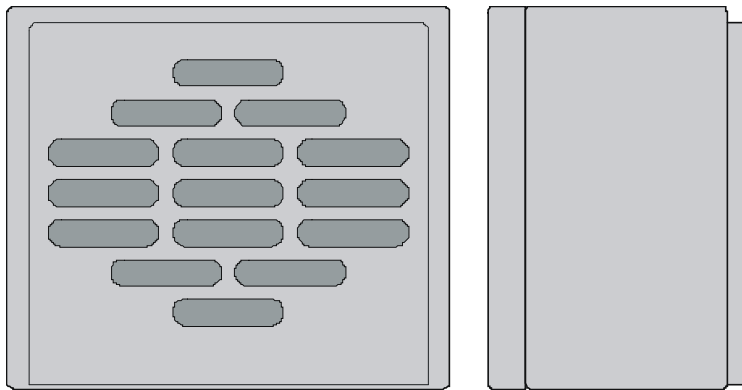
| | |
|-------------------|-----------------------------------|
| AF output voltage | 1.55V |
| Frequency range | fu: 400Hz - 3dB fo: 5kHz - 3dB |
| Distortion factor | k: ≤ 2% |

Loudspeaker amplifier

| | |
|-------------------|---------------------------------------|
| AF output voltage | 1.55V |
| Output power | 2W |
| Frequency range | fu: 150Hz - 1.5dB fo: 7kHz - 1.5dB |
| Distortion factor | k: ≤ 2% |

Accessories

4 751 7 Weatherproof loudspeaker



In stainless steel housing V4A for mounting on railings

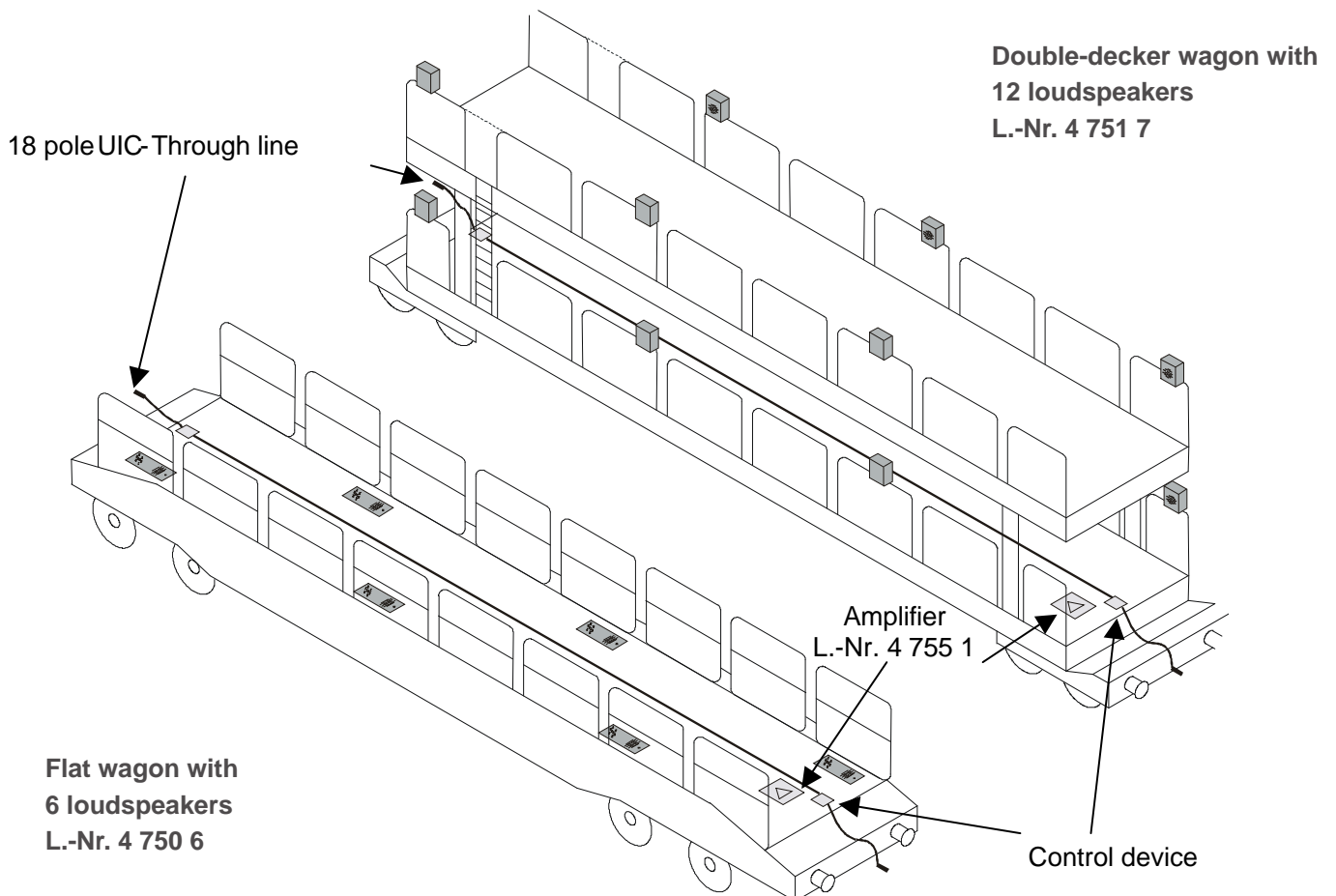
100V 6W switchable to 1.5W / 3W / 6W

Prepared for cable glands (not included in delivery): 2 x Pg 13.5

Dimensions HxWxD: 144mm x 160mm x 94mm

Protection class: IP 65 according to EN 60529

Example of the arrangement of the units on a motorail train:



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Driver intercom
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Accessories

4 755 1 Amplifier unit with power supply and control device



Prepared for cable glands (not included in delivery): 3 x Pg13.5 & 1 x Pg16

Dimensions HxWxD: 400mm x 230mm x 111mm

Protection class: IP 65 according to EN 60529

Technical data:

Operating voltage: AC 230V 40-60Hz or DC 24V

Output power: 50W / 25W

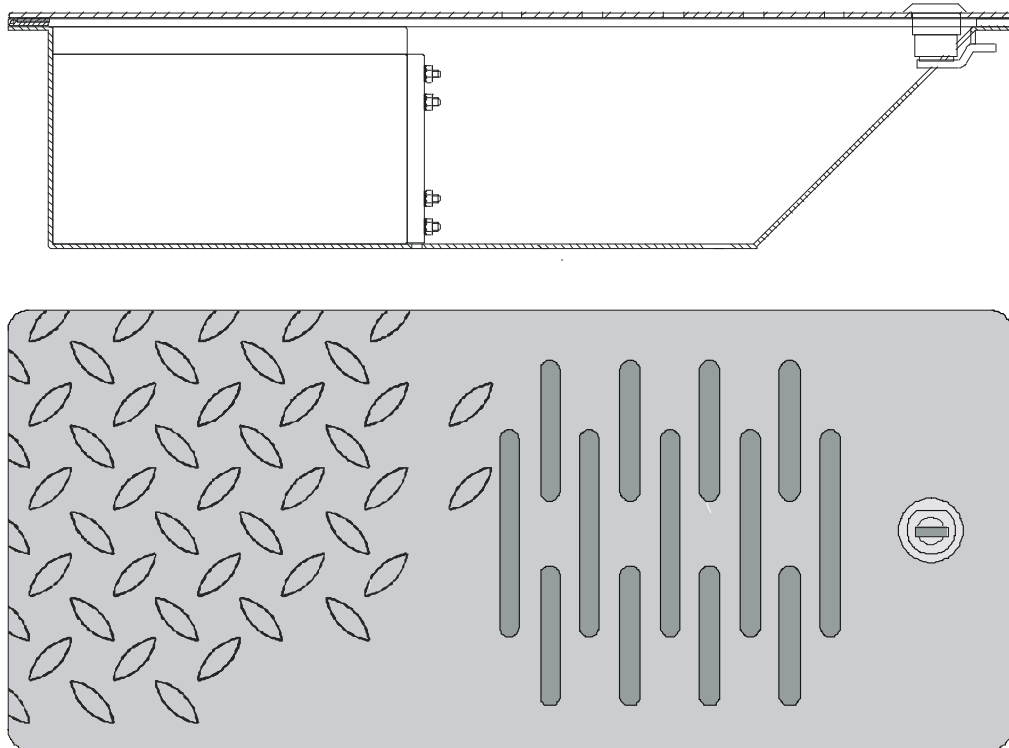
Output voltage: 100V

Input voltage: 1.2V \approx

Distortion factor: $\leq 5\%$

Accessories

4 750 6 Weatherproof loudspeaker



In stainless steel housing V4A for underfloor installation

100V 6W switchable to 3W / 6W / 10W

Prepared for cable glands (not included in delivery): 2 x Pg 13.5

Dimensions HxWxD: 220mm x 500mm x 118mm

Protection class: IP 65 according to EN 60529

Accessories

| Art.-No. | Article | Description |
|----------------|--------------------------|--------------------------------------|
| 929 1215 051 5 | Key cap puller | For replacing keycaps |
| 929 1216 022 4 | Lamp puller | For replacing lamps |
| 214 3403 034 4 | Microphone windshield | |
| 929 1216 099 8 | Key cap | |
| 214 4711 810 9 | Labelling set | |
| 919 1111 450 2 | Key lamp 60V 20mA | |
| 919 1113 059 9 | Fuse 2,5A | |
| 4 751 7 | Weatherproof loudspeaker | For mounting on railings |
| 4 750 6 | Weatherproof loudspeaker | For underfloor installation |
| 4 755 1 | Amplifier unit | With power supply and control device |



Our products and systems at a glance under:
neumann-elektronik.com/system-overview



Neumann Elektronik GmbH

**Lahnstrasse 31-33
45478 Mülheim an der Ruhr
Germany**

**info@neumann-elektronik.com
www.neumann-elektronik.com**

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