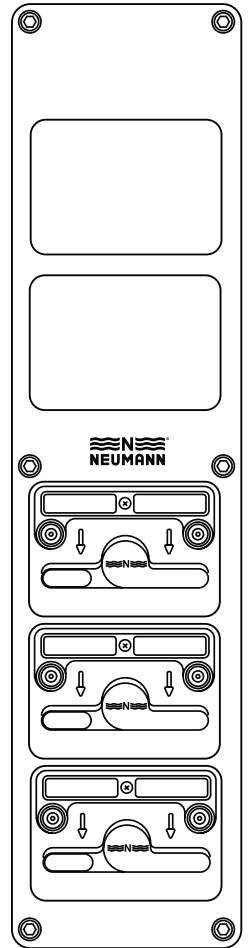
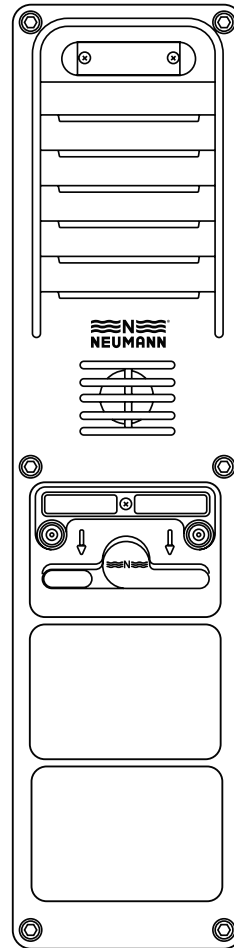
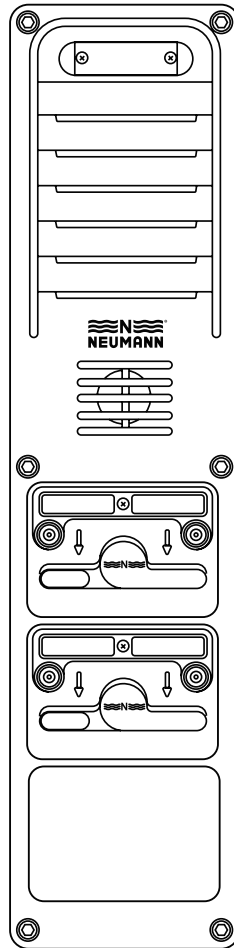
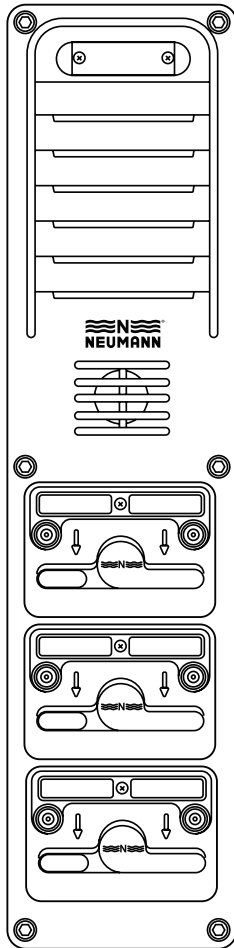
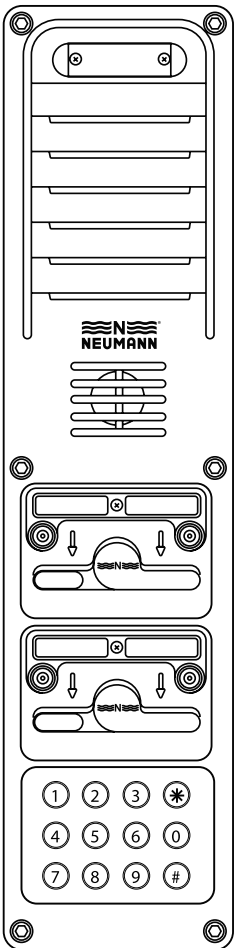
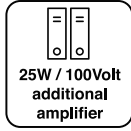


WFD

Weatherproof Digital U_{k0} Call Stations

With optional 25W additional amplifier
With optional WFD additional housing



1 5XX X
1 6XX X

Established Neumann Elektronik quality

Spacious connecting compartment,
two wires can be connected per terminal

Service-friendly modular design

Dialling function with dialling keypad, optionally usable
as destination keys without illumination

Integrated loudspeaker and electret microphone

Simple upgrade / extension of the speech keys

Dust and waterproof,
glass-fibre reinforced polyester housing

Double toggle talk buttons with opto-coupler, 2 lines each

EL operation with own additional loudspeaker as standard

Line keys can be freely assigned as destination keys

Indication of busy and call signalling
through light emitting diodes

Potential-free contact for controlling
of a flash lamp or alarm siren

Secondary priority circuit as standard

Switchable volume reduction, e. g. for night-time operation

Adjustable microphone sensitivity
(noise compensated microphone)

Additional loudspeaker switched off after
the first intercom response as a standard feature

Low power requirement

1 5XX X
1 6XX X

WFD Weatherproof Digital U_{k0} Call Stations
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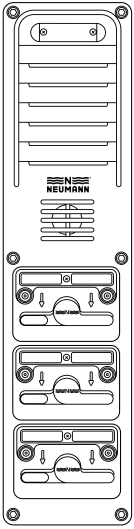
Ver. 11.03.21 21:38

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NEUMANN

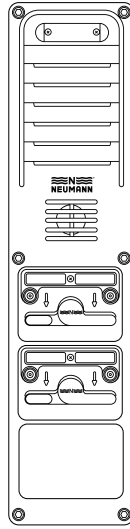
WFD M+

Weatherproof Digital U_{k0} Call Stations



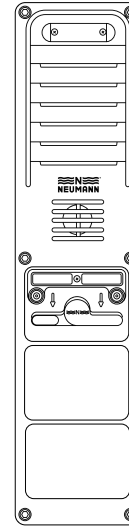
WFD
Weatherproof Digital U_{k0}
Call Stations,
3 Double Toggle
Art.-No. 1 595 0

With 25W additional amplifier
Art.-No. 1 555 6



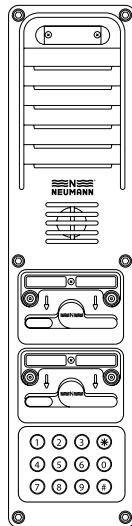
WFD
Weatherproof Digital U_{k0}
Call Stations,
2 Double Toggle
Art.-No. 1 594 9

With 25W additional amplifier
Art.-No. 1 554 5



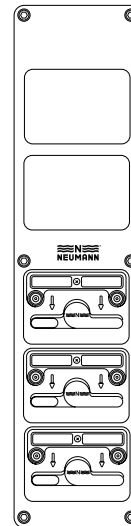
WFD
Weatherproof Digital U_{k0}
Call Stations,
1 Double Toggle
Art.-No. 1 593 8

With 25W additional amplifier
Art.-No. 1 553 4



WFD
Weatherproof Digital U_{k0}
Call Stations,
2 Double Toggle + Dial Pad
Art.-No. 1 681 6

With 25W additional amplifier
Art.-No. 1 683 8



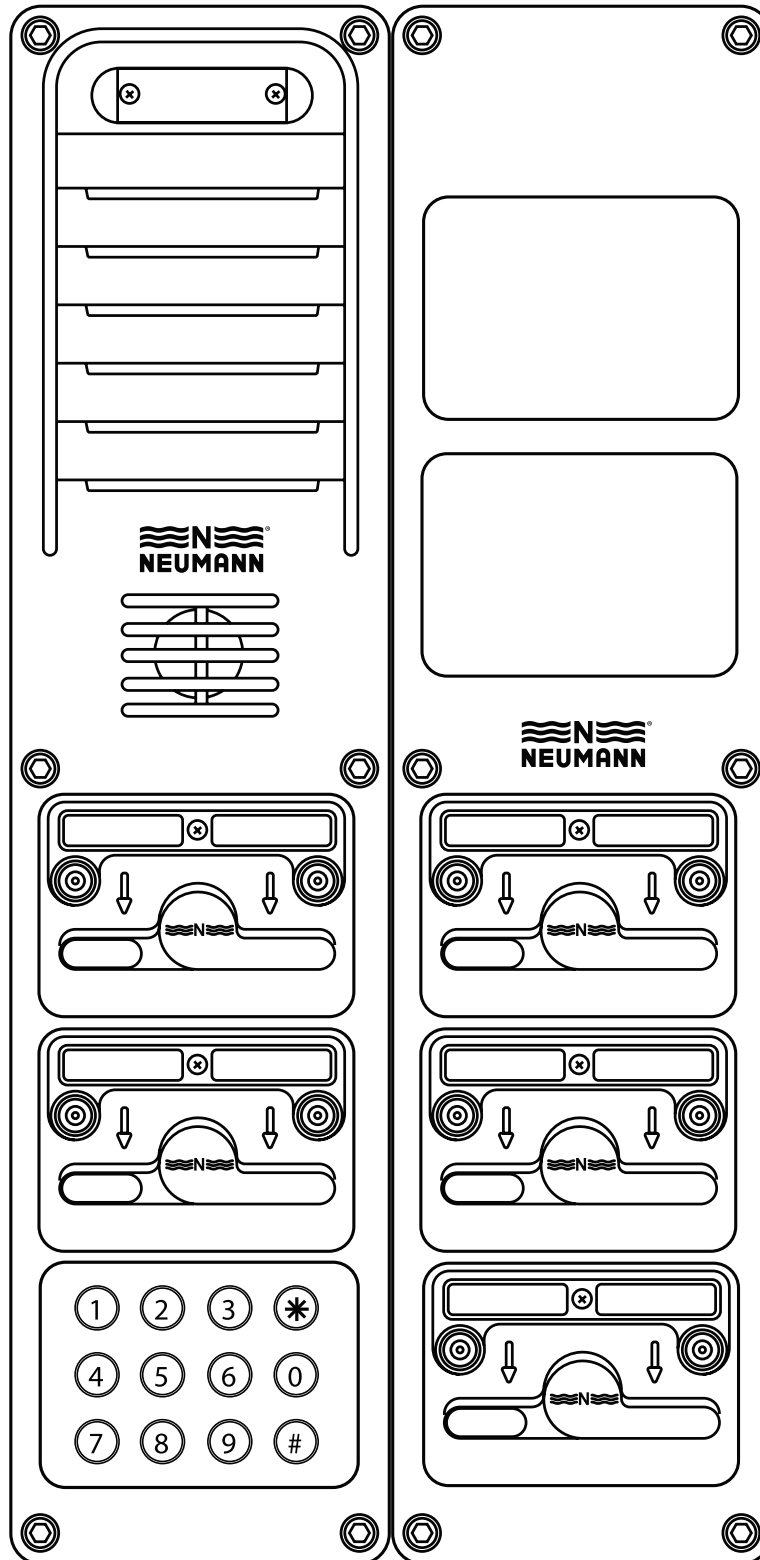
WFD
Weatherproof
Additional housing,
3 Double Toggle
Art.-No. 1 630 0

1 5XX X
1 6XX X

Layout example

WFD M+

Weatherproof Digital U_{k0} Call Stations



1 5XX X
1 6XX X

WFD Weatherproof Digital U_{k0} Call Stations
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The WFD Weatherproof Digital U_{k0} Call Stations enable direct connections to other call stations. They can also be used for outdoor as well as indoor loudspeaker announcements in harsh environments, e.g. in factories of heavy industry.

Light barriers (optoelectronic coupler) are activated contactlessly by pressing the robust double toggle keys. This allows durable using in abrasive and damp environments.

The call stations are designed for wall mounting and must be earthed. The WFD Additional Housing allows extending the WFD Weatherproof Digital U_{k0} Call Stations by additional 3 double toggle keys.

Mechanical data Call station

| | |
|---|------------------------|
| Dimensions (H x W x D) | 500 x 120 x 180 mm |
| Weight (without auxiliary amplifier) | approx. 6,5 kg |
| Colour | pure orange (RAL 2004) |
| Housing flammability | UL94 V-0 (3,2) |

Mechanical data Additional housing

| | |
|---|------------------------|
| Dimensions (H x W x D) | 500 x 120 x 180 mm |
| Weight (without auxiliary amplifier) | approx. 5 kg |
| Colour | pure orange (RAL 2004) |
| Housing flammability | UL94 V-0 (3,2) |
| Cable entries | 2 x M25; 1 x M20 |
| Cable length to the WFD Call Station | approx. 1m |

Electrical data

| | |
|-----------------------------------|---------------------|
| Nominal operating voltage | DC 48 V |
| Max. quiescent current | ≤ 25mA |
| Max. operating current | ≤ 100mA |
| Frequency range | 300 Hz to 7 kHz |
| Transmission protocol | Neumann WL protocol |
| Potential-free two-way contact | DC30V, 500mA |

Environmental conditions

| | |
|---------------------------|--------------------------------|
| Ambient temperature range | -30°C bis +70°C |
| Protection class | IP66 according to DIN EN 60529 |

1 5XX X
1 6XX X

WFD Weatherproof Digital U_{k0} Call Stations
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Accessories

| Art.-No. | Article | Description |
|-----------------|---------------------------------|---|
| 1 570 3 | 25 W auxiliary amplifier | 25 W / 100 V |
| 1 950 5 | Stand | For using the call station as a pillar |
| 64 9 0109 031 3 | Outdoor acoustic hood | For using in outdoor areas |
| 64 9 0109 004 3 | Indoor acoustic hood | For using in indoor areas |
| 22 9 0501 560 0 | Mounting kit | Adapter for drill holes of older call stations, incl. 2 angle brackets and 4 steel hexagon socket screws M6 x 18 |
| 61 3 1831 007 0 | Blank panel | Instead of double toggle |
| 22 2 1601 560 5 | Double toggle | Instead of blank panel |
| 22 3 0101 681 4 | Dial keypad | Instead of blank panel |
| 97 9 4413 561 9 | Hexagon socket screw wrench SW5 | For hexagon socket screws on housing panel |
| 3 334 3 | DS-6 U _{ko} II Adapter | 8-fold. The DS-6 U _{ko} - Adapter II serves as an adapter or interface for connecting digital U _{ko} microphone units to the DS-6 decentralised communication system. |

1 5XX X
1 6XX X

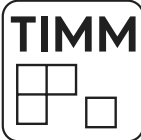
WFD Weatherproof Digital U_{ko} Call Stations
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The logo consists of three wavy horizontal lines above the letter 'N', which is also flanked by two wavy horizontal lines. Below this graphic, the word 'NEUMANN' is written in a bold, sans-serif font.

NEUMANN



Control centre

Industrial control

Video

Telephone

Process control

Access control

Evacuation

emergency call

Personal radio

Fire alarm system

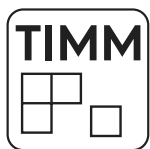
Intercom

Emergency exit control

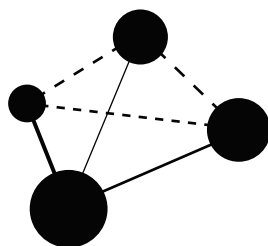
Public address system

Radio

Building services engineering



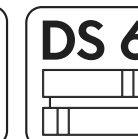
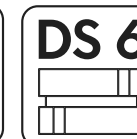
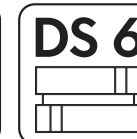
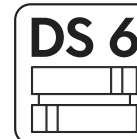
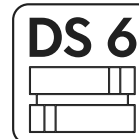
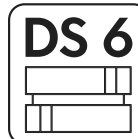
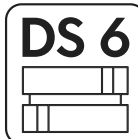
TIMM ComServer



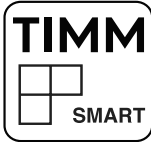
IP network



1-n



1-n



↓↑



↓↑



↓↑



↓↑



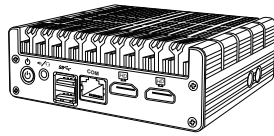
I/O Modul
NE 4 475 0

↓↑



CANopen

↓↑



NE 3 358 9
TIMM SMART



WEB Server



Config / state



SNMP / MIB

Com Server Application

Gateway Application

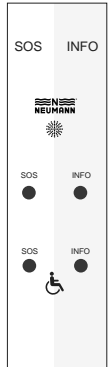
Speechbox* NE 5 067 8

SIP-Trunk* NE 5 065 6

Phone Server* NE 5 034 2

MODBUS / TCP-IP* NE 5 068 9

CANopen* NE 3 373 6



←
→
NIS

↓↑

DS 6 U_{k0} II Adapter NE 3 334 3

and / or

DS 6 PA Control I NE 3 342 2

and / or

DS 6 PA Control II NE 3 343 3

and / or

DS 6 Analogue Adapter 8 Fold NE 3 331 0

and / or

DS 6 Plug-in unit analog NE 2 390 4

and / or

DS 6 PACE EN 54-16 NE 3 344 4

↔

DS 6 PC Call Station „all-in-one“ NE 1 296 8

DS 6 MTSD Desktop Call Station NE 1 045 0

DS 6 MTSD IP42 Desktop Call Station NE 1 0854

DS 6 Call Station 19 Zoll (rack mounting) NE 1 278 8
NE 1 279 9

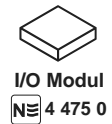
DS 6 Built-in Call Station (panel assemblies) NE 1 28X X¹

DS 6 Crane Call Station NE 1 156 3

DS 6 WFD IP Weatherproof Call Station NE 1 5XX X¹

DS 6 WFD IP Weatherproof Call Station Compact NE 1 87X X¹

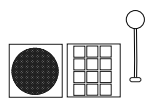
¹⁾: various models; product numbers depending on individual requirements.



I/O Modul
NE 4 475 0



PC Call Station
„all-in-one“
NE 1 296 8



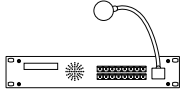
Built-in Call Station
(panel assemblies)
NE 1 29X X¹



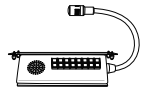
MTSD IP42
Desktop Call Station
NE 1 085 4



MTSD
Desktop Call Station
NE 1 045 0



Call Station 19 Zoll
(rack mounting)
NE 1 27X X¹



Crane Call Station
NE 1 156 3



WFD IP
Weatherproof
Call Station Compact
NE 1 87X X¹



WFD IP Weatherproof
Call Station
NE 1 573 6



MTSD
Desktop Call Station U_{k0}
NE 1 84X X¹



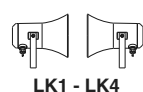
U_{k0} II Adapter 8 fold
NE 3 334 3



WFD EXPROOF
Call Station U_{k0}
NE 1 5XX X¹



WFD Weatherproof Call Station U_{k0}
with additional housing
NE 1 59X X¹
NE 1 6XX X¹



LK1 - LK4



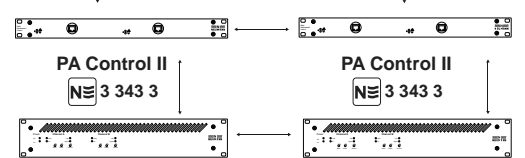
Amplifier 4 x 150W
NE 4 175 7



Third-Part
Hardware

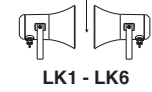


UHF (Ultra High Frequency)

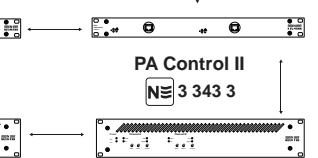


PA Control II
NE 3 343 3

Amplifier
NE 4 1XX X¹

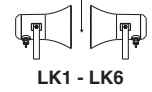


LK1 - LK6

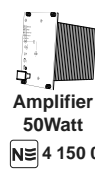


PA Control II
NE 3 343 3

Amplifier
NE 4 1XX X¹

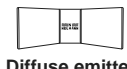


LK1 - LK6

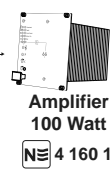


Amplifier
50Watt
NE 4 150 0

LK1 - LK4²⁾



Diffuse emitter
NE 4 805 7

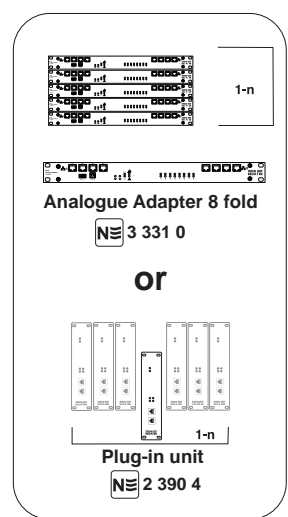


Amplifier
100 Watt
NE 4 160 1

LK1 - LK4²⁾



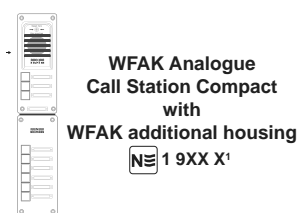
Diffuse emitter
NE 4 805 7



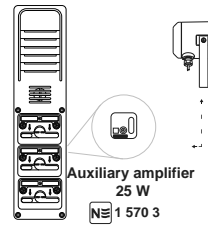
Analogue Adapter 8 fold
NE 3 331 0

or

Plug-in unit
NE 2 390 4



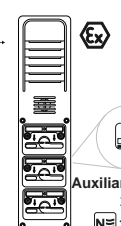
WFAK Analogue
Call Station Compact
with
WFAK additional housing
NE 1 9XX X¹



WFA Weatherproof
Analogue Call Station
NE 1 5XX X¹



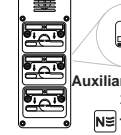
MTSA Analogue
Multifunctional
Desktop Call Station
NE 1 75X X¹



WFA EXPROOF
Weatherproof Analogue Call Station
NE 1 5XX X¹



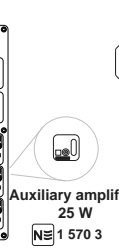
WL 1 Watt
Universal amplifier
NE 1 841 4



Auxiliary amplifier
25 W
NE 1 570 3



Auxiliary amplifier
25 W
NE 1 570 3

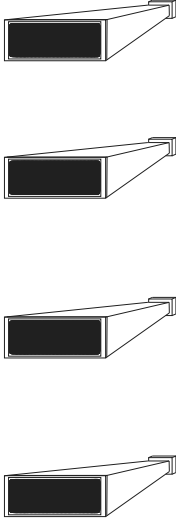


Auxiliary amplifier
25 W
NE 1 570 3

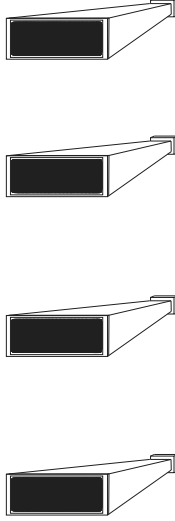
1) different models;
product numbers according to
individual requirements
2) optional



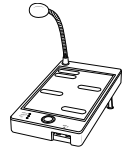
Tunnel horn / boundary horn speaker
NE 4 76X X



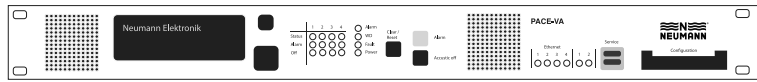
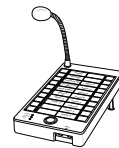
Tunnel horn / boundary horn speaker
NE 4 76X X



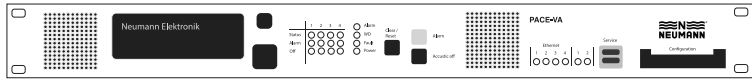
Desktop Call Station PACE-CSTP
DIN EN 54-16, Touch screen
NE 1 357 6



Desktop Call Station PACE-CS20
DIN EN 54-16, 20 Keys
NE 1 355 4



Voice alarm center unit
PACE-VA, EN54-16
NE 3 344 4

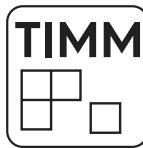


1-n

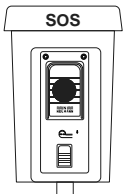
Emergency call and
information pillar
NE 8 0XX X¹⁾



I/O Modul
NE 4 475 0



Emergency Call Station
NE 8 0XX X¹⁾



MODBUS
TCP-IP

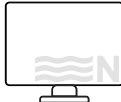
CANopen

Control center
(OMC)
1-n

MTSD
Desktop Call Station
NE 1 045 0



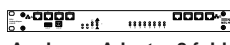
PC Call Station
„all-in-one“
NE 1 296 8



I/O Modul
NE 4 475 0



Analogue Adapter 8 fold
NE 3 331 0



1-n

¹⁾ different models; product numbers according to individual requirements



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45478 Mülheim an der Ruhr
Germany**

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

**1 5XX X
1 6XX X**

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