NRC 001

IP COMPACT INTERCOM STATION

FOR INDOOR USE

They are designed for example for warehouses, workshops, or crane cabins, and can be easily integrated into existing network environments. The compact housing makes the intercom station ideal for wall mounting.

The integrated electret microphone is suitable for applications subject to strong mechanical stress. Together with the speaker module or a remote speaker excellent speech intelligibility in high ambient noise environments is ensured.

Its connectivity and health status is constantly monitored, logged and flexibly notified system-internally and to third-party systems.

10 NRC 001

16 NRC 001

- 2 module openings for keypads and/or speaker

- 3 potential-free inputs (e.g. for use with foot switch), 3 potential-free outputs (e.g. for use with flashing warning beacons),1 audio output (e.g. to control an external amplifier)

- Network connection via Ethernet

- PoE or external power supply

- Self-diagnostics by monitoring of internal electronics, microphone and network connectivity

- Integrated web interface for setting and service functions

COMPONENTS

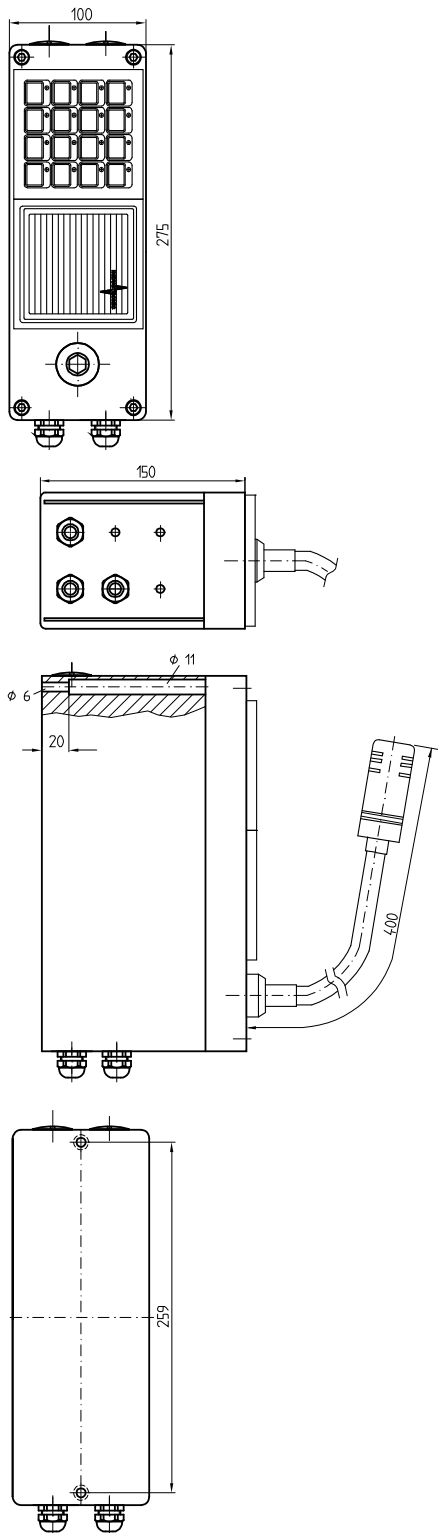| |
|---|
| Two-part housing made of flame-retardant, glass-fiber reinforced polyester |
| Robust gooseneck microphone |
| Speaker module or external speaker |
| Keypad 16 NIFK with 16 membrane keys or 10 NIFK with 10 momentary switches |
| Electronics unit |

MECHANICAL DATA

Width x height x depth	275 mm x 100 mm x 150 mm (10.83" x 3.94" x 5.91")
Weight	Approx. 2.8 kg (approx. 6.17 lbs)
Cable entries	1 x M16 (up to 3 x M16 possible)
Color	Red (RAL 3000)

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DIMENSIONS

ELECTRICAL DATA

Power supply	PoE according to IEEE 802.3af, Class 3, 15 W or external power supply (42 V DC to 57 V DC, 0.3 A at 48 V DC)
Quiescent, max. current consumption	60 mA, 270 mA
Frequency range	200 Hz to 16,000 Hz (+/-3 dB)
Amplifier power	0.75 W
Speaker	5 W / 8 Ohms
AF output voltage for additional amplifier	0.4 V_{ss} to 4.5 V_{ss} (adjustable)
Output impedance	50 Ohms
Potential-free inputs	3
Input voltage level of each input	Off: 0 V DC to 5 V DC On: 10 V DC to 72 V DC (current consumption max. 4 mA)
Potential-free outputs	3
Max. voltage and current value for each output	72 V DC, 100 mA
Auxiliary voltage output	48 V DC, 50 mA (operating voltage potential)

INTERFACES

1 x RJ45 port 10/100 MBit/s (LAN + PoE)

1 x Mini USB service port

Plug-in terminal with 1.5 mm² nominal cross-section

NETWORK REQUIREMENTS

Power over Ethernet (PoE) recommended

IPv4 network

Support of UDP, SCTP, RTP and RTCP protocols

Quality of Service (QoS)
    Ideal latency < 20 ms (max. 50 ms)
    Jitter max. 10 ms

10Base-T/100Base-TX Ethernet (IEEE 802.3), 100 MBit/s recommended

200 kBit/s basic bandwidth and 200 kBit/s per active audio channel

ENVIRONMENTAL REQUIREMENTS AND STANDARDS

Ambient temperature during operation	-10 °C to +50 °C (+14 °C to +122 °F)
Relative humidity (non-condensing)	Max. 95 %
Degree of protection	IP40
EMC	IEC/EN 61000-6-2 IEC/EN 61000-6-4

ORDER DATA

Type	Type Number
10 NRC 001 with 10 momentary switches, microphone and speaker module	302-054-000
16 NRC 001* with 16 keys, microphone and speaker module	302-054-100
20 NRC 001 with 20 momentary switches, microphone and external loudspeaker	302-054-200
26 NRC 001* with 16 keys, 10 momentary switches, microphone and external loudspeaker	302-054-300
32 NRC 001* with 32 keys, microphone and external loudspeaker	302-054-400

*All types with membrane keypads can be ordered with a key cover for 4, 8, 12 or 16 keys (e.g.: Type 16 NRC 001/C4).

OPTIONS

Key cover to protect the membrane keys against accidental actuation

Remote speaker wit 8 m cable

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