

6 DAX 705

Digital Explosion-proof Intercom Station



Features and Functions

- For use in explosive (hazardous) areas of Ex zone 2 and 22
- Degree of protection IP66
- Housing made of glass-fiber reinforced polyester
- 3 momentary rocker switches
- Designed for use with industrial gloves
- Visual call or busy status via LED
- Noise-compensating microphone with dynamic compression
- Continuously adjustable speaker volume and microphone sensitivity
- One internal potential-free relay contact

The intercom stations of the 6 DAX 705 series are used together with the INDUSTRONIC communication and public address system with digital interfaces. They are especially designed for use in explosive (hazardous) areas of Ex zone 2 and 22. The intercom stations can be expanded by external components. An optional 25-W optional booster amplifier enables the use of an external speaker. Based on project or specification needs, you can connect a flashing warning beacon and/or a foot switch.

Equipment category:	Ex II 3G and Ex II 3D	Ex	Compliant with DIN EN 60079
Ignition protection type:	Ex II 3G nA nC IIC T4 Gc X (EN/IEC 60079-15)	nA	Non-sparking and no hot surfaces in normal operation
Certificate:	Ex II 3D tc IIIB T100°C Dc X (EN/IEC 60079-31)	nC	Sealed device
	IBExU14ATEXB009 X	IIC	For explosive atmospheres of all gas groups (IIA, IIB, IIC)
		T4	Device temperature < 135 °C (< 275 °F)
		Gc	For use in zone 2
		tc	Protection against dust by enclosure
		IIIB	For use in areas with non-conductive combustible dust
		T100°C	Surface temperature < 100 °C (< 212 °F)
		Dc	For use in zone 22
		X	Special conditions for safe use

Accessories Available

- 25-W booster amplifier (25 DVAX 02 series)
- Flashing warning beacon
- Acoustic hood
- Free-standing mounting post
- Foot switch

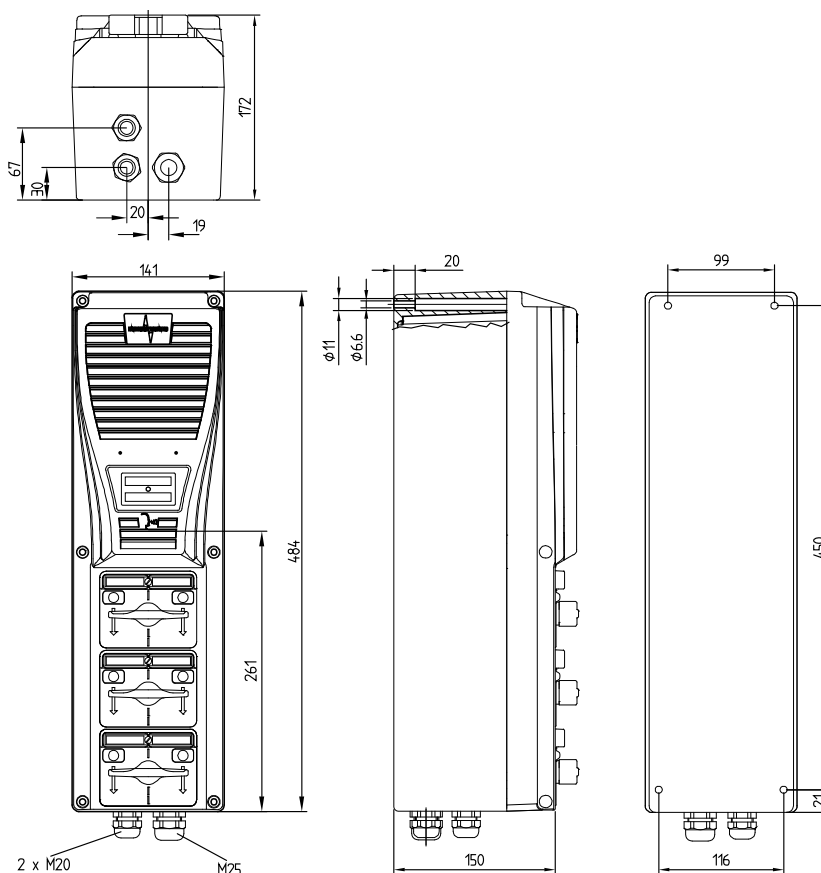


Fig. 1: Dimensional drawing 6 DAX 705

Mechanical Data

- | | |
|--------------------------|--|
| • Width x height x depth | 141 mm x 484 mm x 172 mm
(5.6" x 19" x 6.8") |
| • Cable gland | 2 x M20
(cable diameter: 4 mm to 13 mm)
1 x M25
(cable diameter: 7 mm to 17 mm) |
| • Weight | Approx. 5 kg (approx. 11 lbs) |
| • Color | Pure Orange (RAL 2004) |

Electrical Data of Intercom Station

• Operating voltage range	42 VDC to 72 VDC
• Quiescent current consumption	25 mA
• Max. current consumption	70 mA
• Max. sound pressure level (distance 30 cm (12"))	115 dB
• Frequency range	300 Hz to 7,000 Hz
• Speaker	15 W / 8 Ohms
• Relay	1 A, 72 VDC, 30 W (resistive load) 0.15 A, 72 VDC (any type of load)

Electrical Data of Booster Amplifier

• Operating voltage range	42 VDC to 72 VDC
• Quiescent current consumption	60 mA
• Max. current consumption	850 mA
• Output power	25 W / 400 Ohms

Environmental Requirements and Standards

• Ambient temperature during operation	-40 °C to +55 °C (-40 °F to +131 °F)
• Relative humidity (non-condensing)	Max. 95 %
• Degree of protection	IP66
• Max. ambient noise level	110 dB
• EMC	IEC/EN 61000-6-2 IEC/EN 61000-6-4

Type Overview	No. Rocker Switches	Booster Amplifier	Type	Type Number
	3	-	6 DAX 705	301-644-600
		x	6 DAX 705/25	301-644-600/25

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