CROUSE-HINDS SERIES

Ex Howl-Call Telephones

Battery and network-independent telephone system for applications under rough condition even in potentially explosive or firedamp-endangered areas



If you want or need to use a telephone where this is normally not possible, you need a telephone system that works according to the dynamic principle. Without any external power supply or complex equipment. In blast furnace areas, in tunnel building or mining areas, offshore, on an oil rig or a deep-sea vessel - in any place that is not (yet) connected to any energy source, the dynamic telephony represents an ideal opportunity for connection. To the switchboard, to the base station, to the bridge or colleagues above ground or wherever. This surprisingly easy but efficient method is already being used in many industrial areas to order material or report malfunctions and, not least, in many cases of work accidents it has already been useful to quickly call for help.

The howl call telephone is a battery-free and networkindependent telephone with highly efficient dynamic transmitter and receiver capsules offering remote communication without power supply. The call signal is generated by turning the rotary knob containing an audio frequency dynamo. All telephones have a sturdy, impact-resistant and weatherproof housing. For years they have proven to be a reliable choice for the mining and tunnel building sectors, at construction sites and for industrial applications. The range is about 10 km.

Features

- Telephony without power supply
- Protection class IP 54
- Wide range of accessories
- For rough environmental conditions







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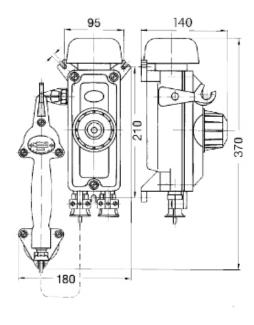
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General arrangement (all dimensions in mm)

Certifications	
Protection type	I M1 Ex ia I Ma II 1G Ex ia IIC T6 Ga
Approval Hand telephone 5069 Wall-mounted telephone 5220	DMT 02 ATEX E 009 BVS 03 ATEX E 433

Specifications			
Housing	Polyamid		
Colour	Black		
Ingress protection	IP 54 according to IEC 60529		
Output voltage Current Ringing frequency Operating position Dimensions (H x W x d)	Hand telephone 5069 Max. 10 V Max. 155 mA Approx. 1540 Hz Any Approx. 70 x 120 x 370 mm	Wall mounted telephone 5220 Max. 9,5 V Max. 95 mA Max. 3000 Hz vertical, cable glands facing downward Approx. 380 x 180 x 140 mm (with microtelephone)	
Weight	Approx. 1 kg	Approx. 2.5 kg	
Operating conditions	Suitable for application in firedamp-endangered underground areas		
Operation mode	Continuous operation		
Temperature range Operation Storage	-20 °C to +40 °C -25 °C to +70 °C		



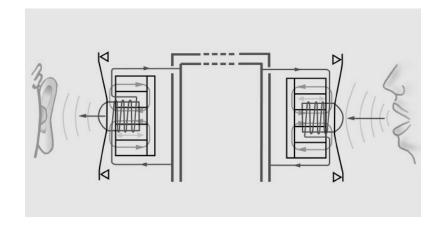
Dynamic receiver capsules for powerless telephony

Simply connect the intrinsically safe handset to the socket and you're ready to go. Or, even easier, just prick into our flat-band cable, and the line is established.

Our handsets and telephone systems are explosion-proof and equipped with a high-volume howl capsule, so that they even meet the requirements for the rough and noisy conditions in underground applications. Intrinsically safe telephony by FHF – for more independence and safety. To establish a dynamic telephone system, only two capsules are necessary. A supply with electric voltage is not required. The two capsules must be connected via a two-wire cable.

Used as a microphone, the dynamic capsule generates a relatively high voltage from a low sound pressure. It is high enough to also generate a sufficient sound pressure for the other capsule used as receiver.

The two capsules are interchangeable and can both be used as microphone or receiver.



These are the main advantages:

- Simple design
- Quick Installation for frequently changing application sites
- Lightweight mobile devices
- Independent from network and battery
- Constantly ready for operation
- Reduced work load on existing branch exchanges
- Cost-effective

Different versions: The right type for every purpose



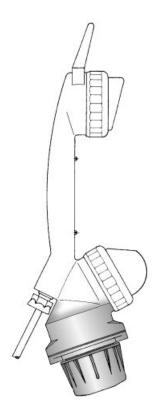
Type 5220 Intrinsically safe wall-mounted telephone with howl call generator



Type 5069Telephone with howl call generator



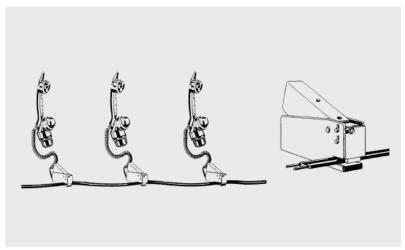
Type 5077 Prick pincer



A manually operated electromagnetic call generator generates a wobble current with a frequency of approximately 2000 Hz, which is directly transmitted to the receiver capsule via a two-wire cable. The current has the effect that an acoustic wobble call is transmitted through the transmitter capsule's membrane.

Application examples of howl call telephones

With movable telephone cable, with "prick pincer" – the quick-connection to any cable section



Order requirements

Туре	Designation	Model	Connected to	ArtNo.
5069	Ex-Hand Telephone	with snap-in plug	coupling socket/wall socket	FHF 113 262 01
5069	Ex-Hand Telephone	with prick pincer	flat-band cable	FHF 113 270 02
5220	Ex-Hand Telephone	w/o amplifier	fixed cabling or hose line	FHF 113 271 01

Accessories				
5555	Snap-in plug, highly impact-resistant plastic	FHF 119 027 02		
5077	Prick pincer, stainless steel sheet with 1 m cable	FHF 113 243 01 AX		