



## Mine Horn NHD-02



Certificate: ATEX



### Technical parameters:

Design	I M2 Ex d I
Supply voltage	24, 42, 110, 127, 230V AC/50Hz
Power input	35 VA
Maximum contact load	8A/690V
Ambient temperature	-20°C to +40°C
Relative humidity	95%, non-condensing
Protection	IP 54
Dimensions	374 x 537 x 131mm
Weight	29.8 kg

### Application:

The mine horn NHD-02 serves for sound signalling when the conveyer operation starts or as an emergency stop of the conveyer by means of a cable mechanism. The NHD-02 horn also serves as a control cabinet of the flight drag conveyer. The set is intended for the use in underground and surface mines with a higher methane explosion hazard.

### Description:

The device is made as a secure enclosure divided into the terminal block and instrument parts. In the instrument part there is a horn solenoid circuit with a coil, two switches attached to the rocker mechanism, a delay action relay, two auxiliary relays and two switches controlled by means of pushbuttons in the cabinet cover. The front part of the instrument panel is fitted with a horn head. On the right side of the instrument panel there is a cam switch which has two positions. The vertical position means the horn is in the operating mode. The horizontal position means the horn is in the service mode. The terminal block part is separated from the instrument part with a barrier with a multiple bushing. The terminal block part is equipped with four bushings.

The mine horn works in two modes which are selected by the switch on the right side of the cabinet. The conveyer is locally controlled at the service mode by means of two pushbuttons "SIGNAL" and "OPERATION" on the cabinet cover. The conveyer in the operating mode is controlled by means of a distance control with two pushbuttons. One pushbutton serves for switching on the conveyer and the other for switching it off. When the start pushbutton is pushed, the horn goes off. Release the start pushbutton once the conveyer starts. Switch off the conveyer using the stop pushbutton. The drawbar situated across the lower part of the cabinet which is controlled by the attached cable serves for emergency stop.

### Equipment necessary for putting the system into operation

For its activity the equipment requires the presence of a supply voltage, the connection of a distance pushbutton control and the connection of a block cable to the drawbar of the rocker mechanism.

Contacts of auxiliary relays which signal switching-on of the horn and the operation of the conveyer are brought out to the terminal block, which can be used for connecting other signalling devices.

### Sound signal

A signal can be released by:

- the start pushbutton of the conveyer distance control
- the block cable along the whole track of the conveyer with a concurrently emitted sound signal
- switching off the previous conveyer if it is blocked to it.

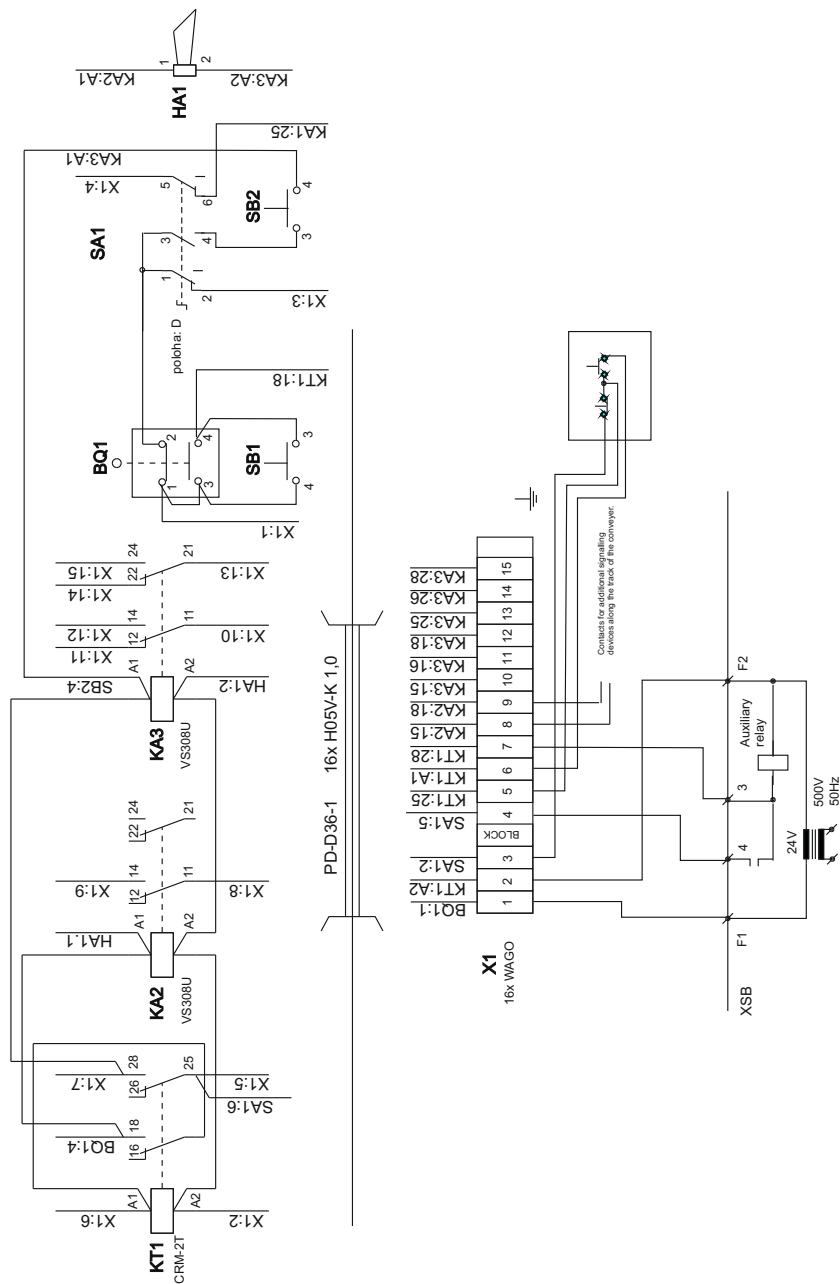
### Stopping the conveyer

- by means of the stop pushbutton of the conveyer distance control
- the block cable along the whole track of the conveyer with a concurrently emitted sound signal
- switching off the previous conveyer if it is blocked to it

**The catalogue has only those selected important parameters for your final decision. For project designs always ask for the user's guide for this product and any engineering consultation about possible uses.**



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Circuit diagram of the mine horn

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