

# HORN DEVICE (AR-01) / ELECTRONIC HORN (EK-01) / AUXILIARY DEVICE (ER-3Y) NO SIGNAL DEVICE (YDR-01) / START STOP DEVICE (SS-3)

Table

Type	Protection Class	Dimensions	Installation	Weight	Rated Voltage Un	Operating Range
AR-01	IP 20 (front panel IP 30)	Type PK 10	Surface Mounting / On mounting rails	0.3 kg	24 VDC 110 VDC	(0.80 - 1.20) x Un (0.85 - 1.15) x Un
EK-01	IP 20 (front panel IP 30)	Type PK 04	Surface Mounting	0.3 kg	12, 24, 48 VAC/DC 110 VAC/DC, 230 VAC	(0.80 - 1.20) x Un (0.85 - 1.15) x Un
YDR-01	IP 20 (front panel IP 30)	Type PK 10	Surface Mounting / On mounting rails	0.3 kg	24, 48 VDC 110 VDC 230 VAC	(0.80 - 1.20) x Un (0.85 - 1.15) x Un (0.90 - 1.10) x Un
ER-3Y	IP 20	Type PK 10	Surface Mounting / On mounting rails	0.3 kg	24VDC 110VDC, 230 VAC	(0.80 - 1.20) x Un (0.85 - 1.15) x Un
SS-3	IP 20	Type PK 10	Surface Mounting / On mounting rails	0.5 kg	24 VAC/DC 230 VAC	(0.80 - 1.20) x Un (0.90 - 1.10) x Un

## AR-01

### General

AR-01 Horn Device is developed for switching the acoustic signals on and off, such as those of horns which take part in the alarm systems.

### Utilization and Operation Principles

AR-01 Horn Device starts operation with the tripping pulse sent by the signal relay combination and locks itself through the terminals 1-2. Normally open contacts are connected to terminals 2-3 and 4-5 which may be used to operate the acoustic signal devices such as horn and siren. The acoustic warning signal remains "ON" until the horn stop button is pressed. The inputs "a1" and "a2" are tripping input ends of the device.

### Technical Data

Min. Tripping Pulse : 15 ms  
Output Contacts : 2 C/O with 5A,1250VA  
Ambient Temperature: -5°C to +50°C

## EK-01

### General

EK-01 is developed as an acoustic alarm device in warning systems.

### Utilization and Operation Principles

EK-01 electronic horn is developed to produce an intermittent voice output of about 3 kHz and draws very small power from the auxiliary power supply in spite of its high voice level output.

EK-01 starts to operate upon the connection of power to its terminals. DC horns are equipped with polarity protection. Thus the horn will not operate with the wrong polarity.

### Technical Data

Power Consumption : Max. 2W  
Acoustic Output Power: Max. 100 Phon

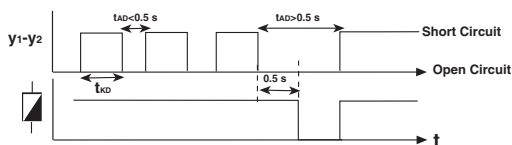
## YDR-01

### General

YDR-01 No Signal Device is utilized to check if two points are open or short circuited.

### Utilization and Operation Principles

The output contact of YDR-01 is switched ON when the detection inputs (y1 - y2) are short circuited. When y1-y2 remains open longer than 0.5 seconds, the output relay is switched OFF and the LED turns OFF. When the detection input is short circuited, YDR-01 starts normal operation. Please see following schematics.



### PRECAUTIONS FOR INSTALLATION AND SAFE USE

Failure to follow those instructions will result in death or serious injury.

- Disconnect all power before working on equipment.
- When the device is connected to the network, do not remove the front panel.
- Do not try to clean the device with solvent or the like. Only clean the device with a dried cloth.
- Verify correct terminal connections when wiring.
- Electrical equipment should be serviced only by your competent seller.
- No responsibility is assured by the manufacturer or any of its subsidiaries for any consequences arising out of the use of this material.
- Mount device to the panel.

## SS-3

### General

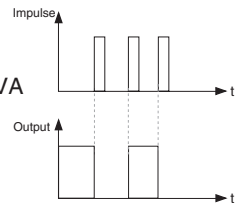
SS-3 Start Stop Device is used for remote control of motors, for the control of illumination of hangars and similar applications.

### Operating Principles

As seen from the connection diagram the relay changes position each time a pulse is received at its input.

### Technical Data

Output Contact : 1 C/O with 5A,1250VA  
Ambient Temperature: -5°C to +50°C



## ER-3Y

### General

ER-3Y Device is developed to be utilized in protection and commanding system as auxiliary devices.

### Utilization and Operation Principles

ER-3Y is utilized in commanding systems in order to increase the number of contacts because of its low power consumption and high contact power rating. An additional advantage of utilizing ER-3Y is to increase the life time of commanding board by reducing its contact loads.

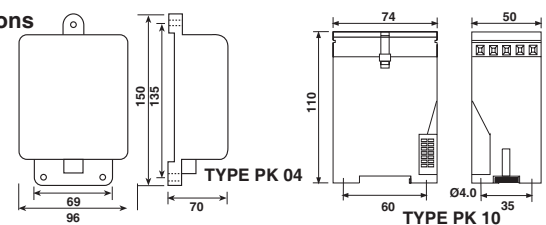
### Technical Data

Power consumption: 1,5 W  
Output Contacts : 2NC+3NO with 5A,600VA  
Ambient Temperature: -5°C to +50°C

ER-3Y can easily be replaced in case of a fault although the replacement of protection device is costly and difficult.



### Dimensions



### Connection Diagrams

