

HKP 5.1 metal detector



Description:

The HKP 5.1 metal detector is designed to signalize the presence of a metal object in non-metallic materials, usually on a conveyor belt.

The most frequently found metal objects are: iron and ferroalloys, manganese alloy used for drilling rigs, aluminium and aluminium alloys, copper, brass, etc. These objects may not have magnetic properties and thus cannot be removed by a magnetic separator. HKP 5.1 is able to indicate all these object independently of their chemical composition, their size and their distance from the antenna.

If a metal object passes through, HKP 5.1 will switch a relay contact and the conveyor belt will stop. The metal presence signal can also be used to turn over the flap in the material flow and thus remove a part of the material following the metal object. When the material is removed, the flap will return and the flow will continue. Another possibility is to switch on the magnetic separator only if a metal object needs to be removed.

HKP 5.1 can also be used for spillways, pneumatic transportation in pipes, etc., as all sorts of antenna shapes (such as U-shaped, arch-shaped, V-shaped antennas) can be manufactured. If other shapes are used, they are based on the parameters in this manual and the construction part of the antenna will be designed individually.



Technical parameters:

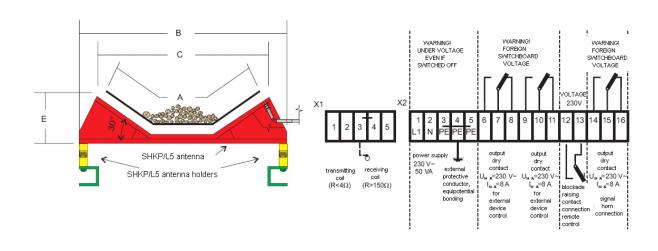
| Power supply | 230V/50Hz | | | | | |
|--|---|--|--|--|--|--|
| Input power | 50 VA | | | | | |
| Relative humidity | up to 95% | | | | | |
| Max. attainable sensitivity | see the picture | | | | | |
| Max. distance between the sensor and the evaluation unit | 15m | | | | | |
| Ambient temperature | -30°C to +60°C heating available for lower temperatures | | | | | |
| Ambient temperature for the antenna | -58°C to +60°C | | | | | |
| | | | | | | |
| Output | max. 50W, 230V AC, 8A | | | | | |
| Output Protection | | | | | | |
| · | 8A | | | | | |
| Protection | 8A IP 54 | | | | | |

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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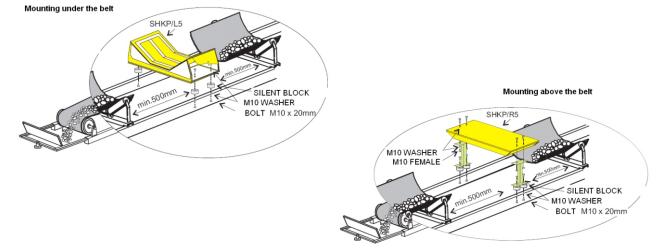


Table of sensitivity of the HKP 5.1 metal object guard

| Distance | | rubic of scholarity of the first of finetal object guard | | | | | | | | | | | | | | |
|------------------|-----|--|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| from the antenna | | Metal ball diameter - Fe material | | | | | | | | | | | | | | |
| 500 | 8 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 8 | 율 | 8 | 8 | 8 |
| 400 | 8 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 8 | 율 | 율 | 윮 | 8 |
| 300 | 8 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 윮 | 윤 | 8 | 윮 | 물 |
| 250 | 8 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 윮 | 율 | 율 | 8 | 율 |
| 200 | 율 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 윮 | 율 | 8 | 윮 | 8 |
| 150 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 율 | 8 | 8 | 8 | 8 |
| 120 | 25 | 25 | 25 | 25 | 25 | 50 | 50 | 50 | 50 | 50 | 50 | 율 | 율 | 8 | 8 | 8 |
| 100 | 12 | 12 | 12 | 12 | 12 | 25 | 25 | 25 | 25 | 25 | 25 | 율 | 율 | 율 | 율 | 8 |
| 70 | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 12 | 12 | 율 | 율 | 8 | 율 | 8 |
| 50 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 윰 | 8 | 8 | 8 | 8 |
| 40 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 8 |
| 30 | 5 | 5 | 5 | 5 | 5 | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 8 |
| 20 | 5 | 5 | 5 | 5 | 5 | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 8 |
| 0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 8 | 8 | 2 | 8 | 8 |
| Band width | 400 | 500 | 650 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |

All dimensions are in mm

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