

Transponder  
Ha-VIS RFID VT 86 S (HT)



## Advantages

- Optimized for the EU band
- Very high read ranges, in relation to the housing dimension
- Robust, chemical resistant housing
- Small size
- Flexible mounting
- High temperature resistance
- Protection class IP 69 K
- Integration in type labels possible

## General Description

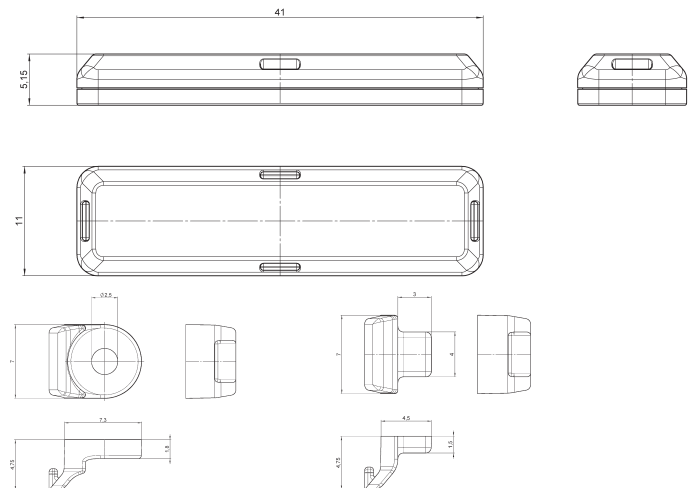
- Particularly robust and durable transponder for repair and maintenance cycles in extremely harsh environments
- Optimized for function on metal
- EPC C1 Gen2 compatible
- Read range (on metal, 2 W ERP, 868 MHz): > 4 m

| Identification | Part number | Drawing | Dimensions in mm |
|----------------|-------------|---------|------------------|
|----------------|-------------|---------|------------------|

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Packaging unit:

|          |                |
|----------|----------------|
| 10 piece | 20 92 611 0201 |
| 50 piece | 20 92 611 0202 |



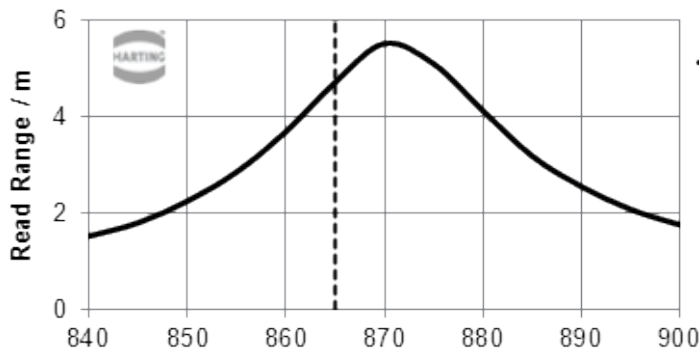
All data given are in line with the actual state of art and therefore not binding.  
HARTING reserves the right to modify designs without giving the relevant reasons.

## Technical characteristics

|                                 |   |  |
|---------------------------------|---|--|
| <b>Frequency range</b>          | 860 ... 870 MHz   | EU Band  |
| <b>Protocol</b>                 | EPC Class 1 Gen 2   |  |
| <b>EPC / User Memory (Chip)</b> | 96 Bit / 512 Bit  | (Alien Higgs 3)  |
| <b>Temperature range</b>        | Function<br>Storage<br>Thermal shock (0 °C to 210 °C)<br>Thermal stress test (210° C) | -50 °C ... +85 °C<br>-65 °C ... +160 °C<br>5000 cycles<br>5000 h     |
| <b>Housing</b>                  | Size (W x D x H)<br>Protection class<br>Mounting<br>Colour                            | 41 x 11 x 5.15 mm<br>IP 64 / IP 67 / IP 69K<br>screws, glue<br>black |

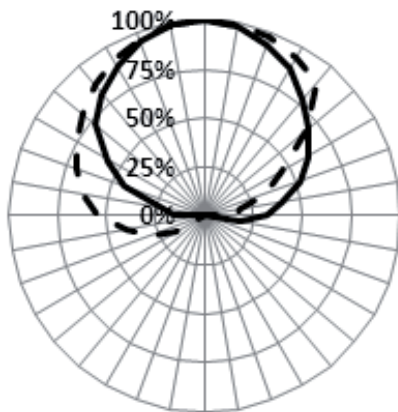
## Measurements

## Read Range / Radiation Pattern

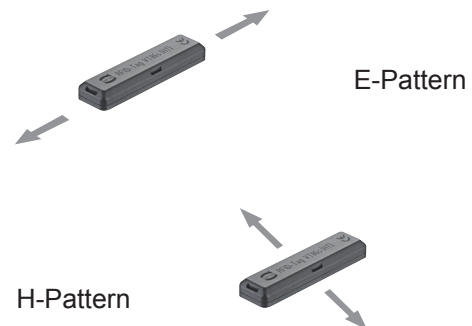


— on metal  
- 200x200mm -  
forward

Theoretical Read Range  
measured in free field con-  
ditions (radiated power – 2  
W ERP).



— E-Pattern  
- - H-Pattern



The general Shape of the Radiation Pattern remains the same, regardless of:

- Placement of tag on different metallic surfaces