Ha-VIS RFID Control ETB – EU & US / Asia version

Transponder
Ha-VIS RFID Control ETB 86v1 (EU)
Ha-VIS RFID Control ETB 92v1 (US / Asia)

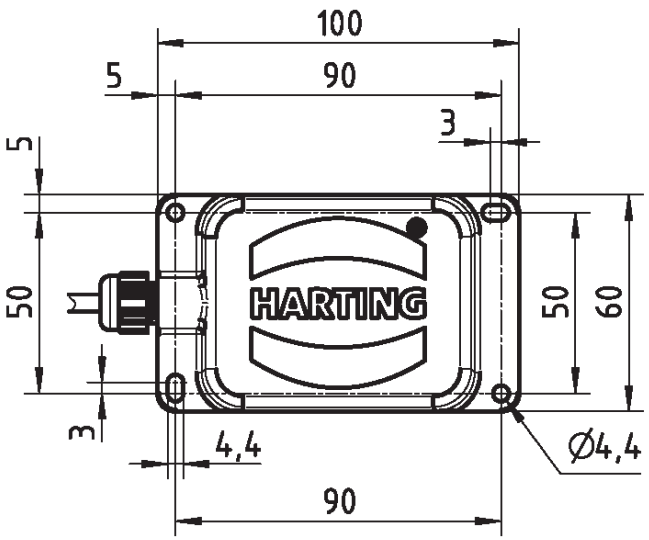
Features

- Passive RFID transponder with monitoring function
- Monitoring of 2 inputs
- Dry contact control via 8 m cable
- Optimised for function on metal
- Completely Class 1 Gen 2 compatible
- Extremely robust and chemically resistant housings
- Easy fixing (with screws)
- High temperature resistance
- Protection class IP67

General description

- The Ha-VIS RFID Control ETB is an intelligent UHF transponder acting as a condition monitoring system. In addition to the EPC header and user memory, it communicates the status of 2 digital inputs. Due to these inputs i.e. open/closed contacts are connected directly via a cable to the transponder.
- Passive mode, no power supply on transponder necessary
- Control transponder for:
  - industrial conveyor systems
  - lifts or elevator systems
  - cable cars
  - moving parts (machinery)
  - intelligent vehicles

Identification	Part number	Drawing	Dimensions in mm
Ha-VIS RFID Control ETB 86v1 EU version			
Packaging unit: 1 piece	20 92 614 7055		
Ha-VIS RFID Control ETB 92v1 US / Asia version			
Packaging unit: 1 piece	20 92 624 7055		



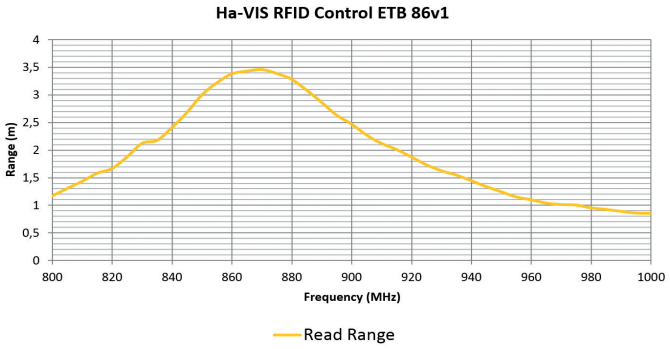
Technical characteristics

Frequency range	860 … 870 MHz, EU frequency band 900 … 930 MHz, US / Asia frequency band
Protocol	EPC Class 1 Gen 2
EPC / user memory	224 Bit / 3072 Bit (Chip: EM4325; Attention: Only the first 1536 Bit of the user memory are allowed to be reprogrammed, without influence on the functionality of the sensor)
Temperature range – Operational	-40 °C … +85 °C
Read range on metal*, 2 W ERP	up to 3 m
Function range	up to 1 m
Housing	
Dimensions (W x D x H)	100 x 60 x 18 mm
Protection class	IP67
Mounting	screws, rivets, glue
Colour	black
Safety notes	1) Do not remove cable protection insulation before final installation. 2) Do not connect shield to GND.

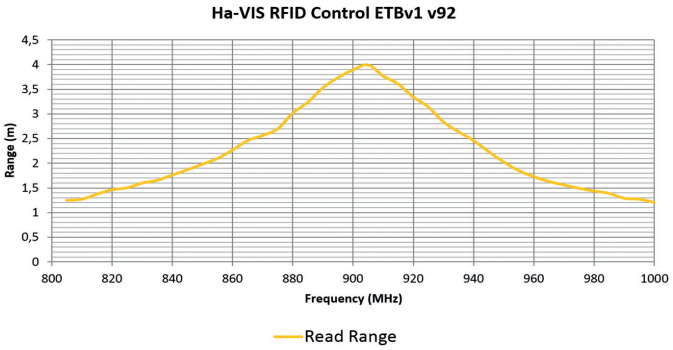
Measurements

Read range

EU version



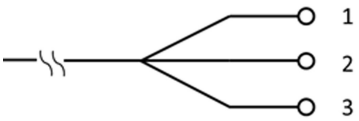
US / Asia version



Theoretical max. read range measured in free field conditions, on metal.

Monitoring function

Pin assignment of cable



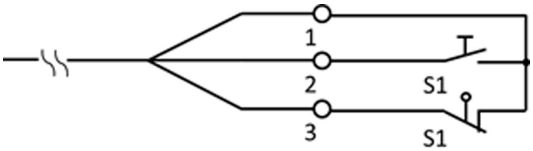
Pin	Colour code	Function
1	green	U_V
2	brown	Input 1
3	white	Input 2

Status of inputs is stored in the user memory: decimal address 268 / Bit 0 and 1 (MSB first)

Logic table switch condition	Memory value
Pin 1 - 2 open Pin 1 - 3 open	X 8000
Pin 1 - 2 closed Pin 1 - 3 open	X 8001
Pin 1 - 2 open Pin 1 - 3 closed	X 8002
Pin 1 - 2 closed Pin 1 - 3 closed	X 8003

Attention: Only word 0 up to 191 of the user memory you are allowed to use for customised data – the remaining bytes are part of the sensor functionality

Connection example



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* Metal plate with the dimension of 200 x 160 mm