Vwind-Imp

Wind Speed Sensor

Short Description

Our wind speed sensor Vwind-Imp comes equipped with a high-quality fibre-reinforced plastic cup star and with a weatherproof cable. Thanks to the use of top quality components the sensor achieves high accuracy and is ideal for use in field environments (PV plants).

Technical Data

Type	Vwind-Imp
Sensor Type	Cup Star Anemometer
Signal	Reed-Relais, 2.5 Hz/(m/s)
Measurement Range	0.9 to 40 m/s (60 m/s for short time)
Measurement Uncertainty	0.5 m/s or 5% of Value
Pin Assignment	Pin 1: Reed-Relais Pin 2: Reed-Relais
Contact Voltage	Max. 28 VDC (max. 0.1 A)
Weight	Approx. 300 g
Size (without Holder)	Ø 134 x 160 mm
Protection Level	IP 54
Operating Condition	-25 to +60°C (without icing)
Sensor Cable	Length: 3 m, (LiYY, 4 x 0.22 mm²)
Customs Tariff Number	90158020

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Safety Instructions

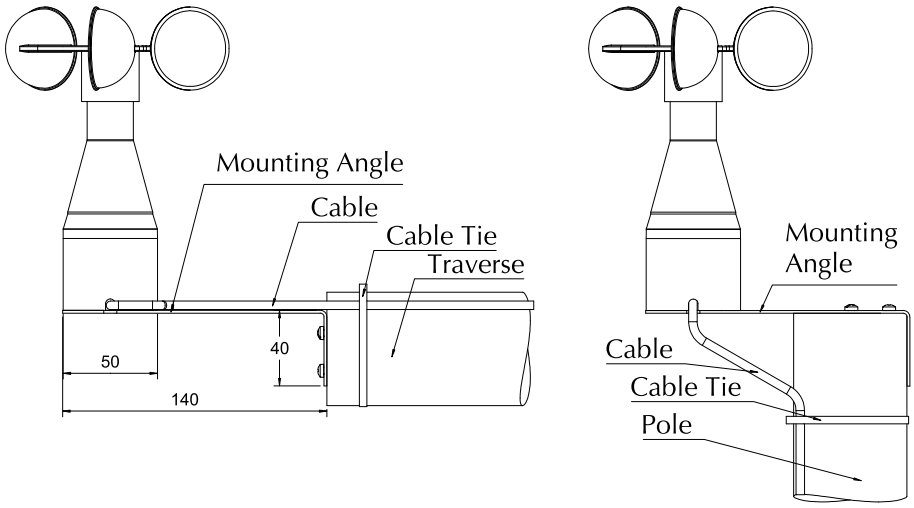
The installation and assembly of electrical equipment must be carried out by electrically qualified persons.
The sensor may not be used with equipment whose direct or indirect purpose is to prevent human death or injury, or whose operation poses a risk to humans, animals or property.

Electrical Connection

The sensors are designed for safety extra-low voltage (SELV) operation.

Installation Instructions

Storing, mounting and operation under weather conditions is only allowed in vertical position, as otherwise water can get into the sensor. So an installation with roof inclination is not allowed.
No installation in wind protected areas or in wind shadow of any construction.
On flat roofs an installation in the middle of the roof is preferable.
The wind sensor must be integrated into the lightning protection system.
The sensor cable must be fixed at the mounting construction.
The screws for fastening the sensor at the mounting angle are tightened with a maximum of 1.5 Nm.



Maintenance

Heavy air pollution can clog up the slit between the rotating and the stationary part of the wind sensor. This slit must be kept clean.
After longer use abrasion might occure at the bearings and the reed relais. This can cause a higher starting torque or missing output impuls. Therefore were commend a yearly maintenance and checking of the rotating ability of the cup star.

User information

The sensor is designed for the measurement of natural wind speed. The warranty is for 1 year from the date of the invoice for the intended use. M&T does not accept any liability for possible losses or damage due to the incorrect usage of the sensor. Liability for consequential damages is excluded.