

Data sheet "Wind-sensor FW-1"

General information:

The weather-proofed (IP65) Wind-sensor FW-1 protects jalousies, marquees/blinds, shutters, wind-energy systems, cranes, mobile installations, tents, ventilation flaps, roof hatches and build-ups against damage due to strong wind by gathering wind speed.

The 3-bowl anemometer mechanism is maintenance-free, pivot-mounted on two ball bearings.

The sensor converts contactless rotation speed of the anemometer into a square-wave signal by a potential-free contact. The contact (n.o.) is closed 2x per cycle. The frequency of the signal is proportional to the wind speed.

An integrated heating guarantees an error-free operation during winter time.

! Connection, installation and commissioning only by qualified and skilled person with electrical education !



Ambient temperature:

Protection degree:

Measurement range:

Output signal:

Integrated Heating:

Connection:

Housing:

Size body

Size anemometer:

Technical specifications FW-1:

-30...+80 °C

IP 65 (wind-sensor, connection cable depending on installed connection box)

3...31 m/s = 0...75 Hz

24 V-square-wave signal, 2 impulses per cycle
(potential-free Reed-contact with serial protecting resistor, max. 24 V / 20 mA)

24 V AC/DC +/-10 %, 0.22 A, 5 W

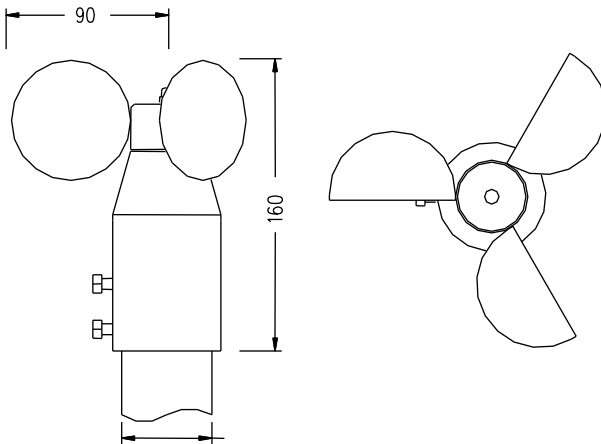
ca. 2 m wired-ready cable, LiY 4x 0.25...0.34 mm²

aluminium, painted, RAL 7035

60 (D) x 160 (H) mm

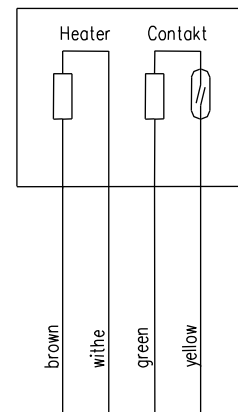
180 (D) x 70 (H) mm

Dimensions FW-1:

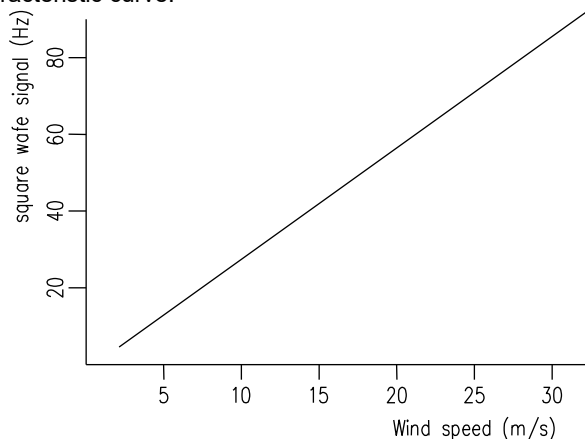


Most tube Dmax. 50mm

Connection schematic:



Characteristic curve:



Beaufort	m/s	km/h	knots
0	~ 0	< 1	< 1
1	~ 1	1-5	1-3
2	2-3	6-11	4-6
3	3-5	12-19	7-10
4	5-8	20-28	11-16
5	8-11	29-38	17-21
6	11-14	39-49	22-27
7	14-17	50-61	28-33
8	17-21	62-74	34-40
9	21-24	75-88	41-47
10	24-28	89-102	48-55
11	28-33	103-117	56-63
12	33+	118-133	64-71
13		134-149	72-80
14		150-166	81-89
15		167-183	90-99