



Applications

- General Meteorology
- Wind Energy
- Construction sites
- Offshore Oil and Gas
- Aviation
- Sports

Features and Benefits

- Low-threshold starting speed
- Resistant to all weather conditions
- Compact dimensions
- Anodized aluminum and plastic
- Different output signal
- Type calibrated in wind tunnel
- Minimal maintenance
- Suitable for national met office

DHV116 is a rotating, optoelectronic sensor with frequency pulse output for measuring wind speed.

DHV116 is made of naturally anodized aluminum. High-quality sealed ball bearings are used in the rotating measuring system. A lightweight three-way assembly (Robinson's cross) rotates the stroboscope disk across light beam generated by a long-life IR diode. Interruption of the beam causes a pulse output with its frequency, proportional to the wind speed. All electronic elements are protected against overvoltage by resistors and Zener diodes.

DHV116 is connected to the measuring system by 4-pin weatherproof connector, located at the bottom of the sensor. The sensor requires minimal maintenance. Even after years of use, when inexpensive and easily replaceable bearings are worn, measurements are almost unchanged. Bearings can be easily replaced if necessary. Additional mechanical loads, as icing, cannot damage the sensor.

Technical specifications

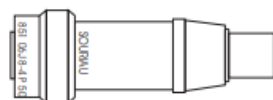
Measuring range	0 m/s – 50 m/s
Starting speed	0.5 m/s
Distance constant	aprox. 3m fluid flow past the sensor required to cause it to respond to 63,2%
Accuracy	+/- 0,5 m/s
Resolution	0,1 m/s
Sensitivity	20 imp/m
Measuring system	stroboscopic disk, optoelectronic transducer
Output signal	pulse signal, frequency 1 kHz at 50 m/s
Option output signal	voltage output 0...10V or current output 4...20 mA
Power supply	12 VDC
Power consumption	15 mA
Operating temperature	-50 to + 60 ° C
Storage temperature	-50 to + 80 ° C
Connector	Souriau, 4-pole, weatherproof
Cable	3 wire, shielded
Dimensions	φ 150 x H 140 mm
Mass	130 g
Mounting	mounting bracket, hole φ 6mm
Material	body - anodized aluminium Robinson's cup – UV stabilized plastic

Cable connection



View from below
(soldering side)

conector SOURIAU



cable LIYCY 4x0,14

conector SOURIAU 4p M	color	signal
A	blue	H (speed)
B	gray	+12V
C	purple	0V
D	shield	GND

