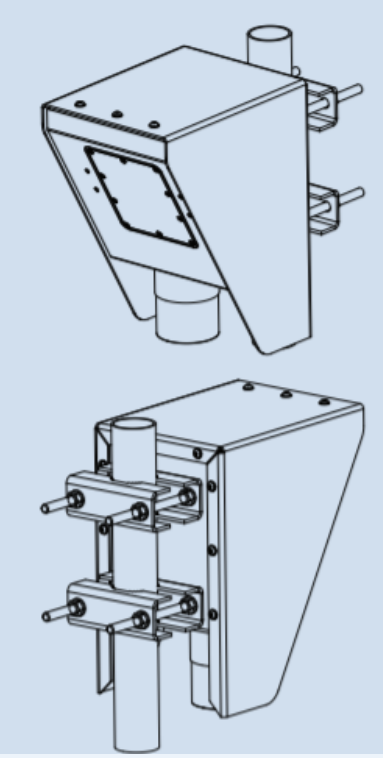
RFL-24 VDC Flow Meter



General:

Radar Type: K-band 24.125GHz/24.200GHz Doppler radar, 27 dBm EIRP

Beam Angle: 12° Azimuth 24° Elevation

Detection Distance: 50 m

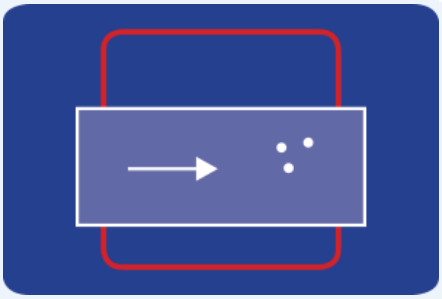
Speed Range: 0,02 m/s to 15 m/s

Ultrasonic Frequency: 20 kHz to 350 kHz

Distance Range: 0,5 m to 10 m

Distance Resolution: 1 mm

IP Rating: IP68



Technical specifications: RFL-24 VDC Flow Meter

Electrical & Mechanical:

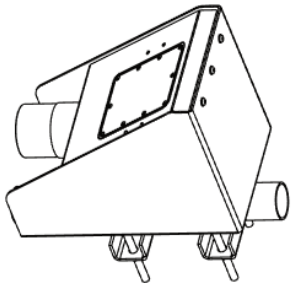
Power Input: 9 to 27 VDC

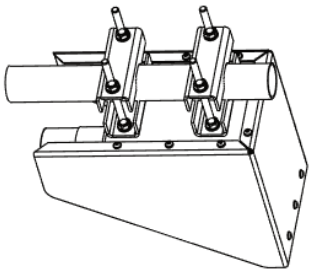
Power Consumption: < 1,35W (typical 1,0W)

Maximal Current: < 250 mA

Temperature Range: -40°C to +85°C (without heating or coolers)

Device Outer Dimensions: 150mm x 200mm x 250mm





Interface:

Serial Interface: 1 x serial RS-485 half-duplex, 1 x serial RS-232 (two wire interface)

Baud Rate: 1200 bps to 115200 bps

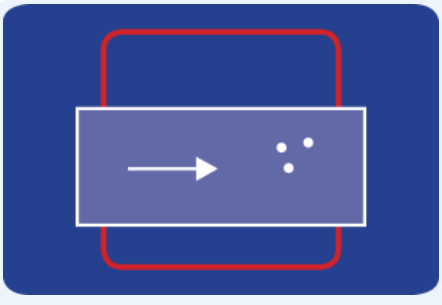
Serial Protocols: ASCII-S, GLX-NMEA, other available on request

CAN Interface: Up to 1Mbps CAN2.0

SDI-12 Interface: Available as optional add-on module

Alarm Outputs: 2 x open collector, max 50V 200mA

Connector: M12 circular 12-pin



Product Highlights

Contactless flow measurement

Surface flow velocity measured with radar sensor

Water level measured with ultrasonic sensor

Wide velocity measurement range from 0,02m/s to 15m/s

Distance measurement range from 0,5, to 10m

Long range opera on up to 10m above water level

Compact, low-power design

Wide input voltage range, suitable for solar applica-tions

Supports variety of communica on interfaces (RS-232, RS-485, CAN, Alarm open-drain outputs)

Op onal SDI-12 support

IP68-rated enclosure (for outdoor applications and harsh environments)

K-band 24.125 GHz or 24.200 GHz radar operation

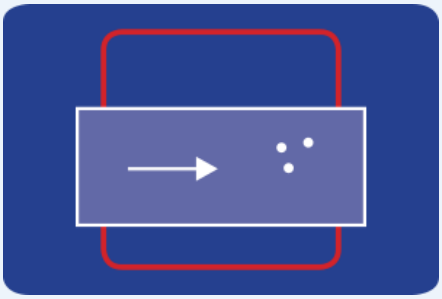
Automatic mounting angle compensation (cosine cor-rection)

Configurable direction of the flow measurement

PC application for radar setup and live flow monitoring

Simple integration with existing SCADA or tele-metrysystems

Easy pole, wall or enclosure moun ng



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