

Overview



- Wireless communication on ISM band at 865-867MHz (India), 868MHz (EU), 902-928MHz (Americas and Australia).
- Up to 1 Km range on Line of Sight.
- Encrypted communications by AES 128bits.
- Auto routable.
- Modbus RTU wireless transmission
- Modbus RTU RS485 transmission
- Power range: 9Vdc@80mA <=> 30Vdc@24mA
- Count of pulses and real input status stored in an internal Modbus register.
- One Open Drain output.
- DIN-Rail mounting
- Firmware updatable via microUSB.
- Capable to be adapted to other industrial communication protocols.

Characteristics

General

Power supply: 9Vdc@80mA to 30Vdc@24mA
 Consumption: <1 W

Radio

Frequency: 865-867MHz (India), 868MHz (EU),
 902-928MHz (Americas and Australia)
 Sensitivity: -104dBm typ
 RF Power: Up to +26 dBm
 Range: Up to 1km
 Antenna: SMA Female connector – not included

Interfaces

microUSB: Configuration port (19200 bps UART)
 RS485: Up to 1.2 km distance, speed up to 19.2 kBaud

Discrete inputs/outputs

Pulse input: Wet contact (up to 30Vdc), Dry contact
 Detecting frequency: Up to 30Hz
 Discrete output: Open Drain 2A

Protocols

Modbus RTU, Wireless AES128 Encrypted Mesh

Working conditions

Working temperature: -25 .. +70°C
 Storage temperature: -40 .. +70°C
 Humidity range: 5 – 95%, w/o condensation

Regulatory approvals

CE UNE-EN 60950-1:2007
 +Corr:2007+A11:2009+A1:2011
 +A12:2011/AC2012(Partial)
 UNE-EN 61000-6-1:2007
 UNE-EN 61000-6-3:2007
 UNE-EN 55 022:2011 + Err (UNE-
 EN55022:2011/AC)
 UNE-EN 55 024:2011
 EN 301489-1 v1.8.1 (2008-02)(Partial)(1 – 6
 GHz Band)

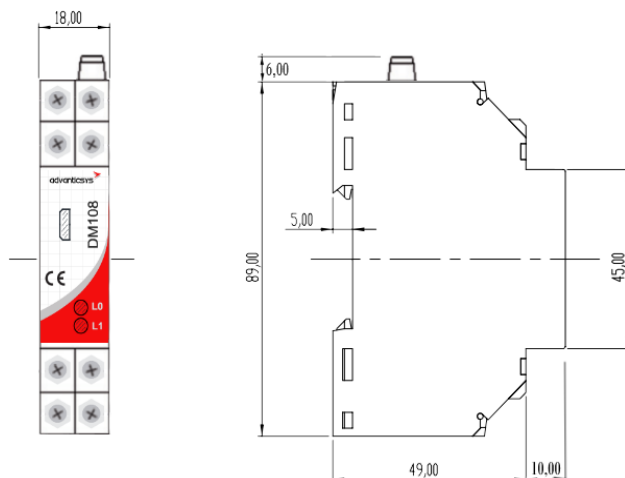
Physical characteristics

Dimensions: 18x89x59 mm
 Material: PC/ABS
 Protection type: IP20
 Mounting: DIN rail compatible

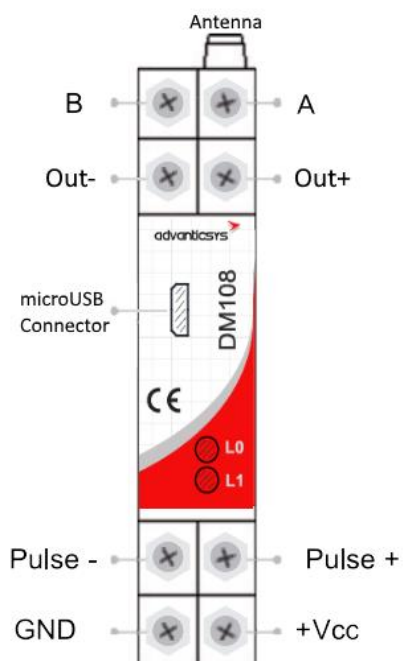
Other features

Made in the EU

Dimensions (mm)



Connections



Description of connections	
Antenna	SMA Connector for 868MHz antennas
A	Terminal A RS485.
B	Terminal B RS485.
Out+	Terminal of the Drain of the driver.
Out-	Terminal connected internally with the DM108 ground.
Pulse+	Positive Pulse Input Terminal
Pulse -	Negative Pulse Input Terminal
+Vcc	Power Source Positive Terminal
GND	Power Source Ground Terminal
microUSB connector	May used as UART to recover a configuration. Also for firmware update
LEDS	
L0	Blink each 10000 work cycles.
L1	Blink with any transmission or reception in any of each communication channel.

The information contained in this datasheet is subject to change without notice. Make sure you are using the latest version.