TWTG

NEON Data Sheet

Contact Sensor
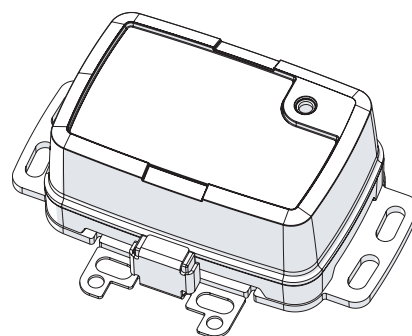
Product	
Product name	TWTG NEON Contact Sensor
Type identification	VS-868-01-CSxx / VS-915-01-CSxx / VS-923-01-CSxx Where "xx" indicates the applicable country. Visit https://www.twtg.io/markets/industry for more information

Connectivity	
Protocol	LoRaWAN Private LoRa-WAN, public LoRa-WAN upon request
Frequency band	868 MHz / 915 MHz / 923 MHz compatible Region specific frequencies and certifications upon request
Maximum RF output power	13.8 dBm

Functionality	
Conditions	The sensor must be activated on final location in installed position and desired state. Once the sensor is removed and relocated, reactivation is required.
Compatibility	The NEON Contact Sensor is developed to monitor the desired state of any asset or to indicate that certain assets are in the correct / incorrect position.
User interaction	Magnet key
Status notification	RGB LED
Accuracy	0.5°C (depending application and installation) For accurate (absolute) temperature measurement, insulation of the sensor and the measured object is required.
Message frequency	On state change Configurable over LoRa
Message information	State change Min/Max/Average **Battery condition**

Mechanical	
Enclosure	Molded plastic
Color	NEON green
Dimensions	95x64x39mm
Weight	150g

Installation	
Required installation qualification	IEC 60079-14

Method	The Sensor and Magnet enclosure can be mounted using screws, bolts, tie wraps, band clamps or double sided tape. Flat surface, surface irregularities should be removed
Battery	
Battery life	3-5 Years, at 25°C Depending on average ambient temperature and network quality
Battery type (replaceable)	1x Type A
Voltage	3.6 V
Capacity	1x 3600 mAh
Environmental conditions	
Operating temperature range	-40°C - 80°C
Storage temperature range	10°C - 30°C
Vibration	Per MIL-STD-202F
Water & dust resistance	IP65
Certification	
ATEX/IECEx rating	Ex II 2G Ex ia IIB T4 Gb	
ATEX/IECEx standards	EN IEC 60079-0 EN 60079-11	IEC 60079-0 IEC 60079-11
ATEX/IECEx certifications	18ATEX0106 DEK 18.0063	
FM Rating	Class I Division 1, Groups C, D; T4 Ta = -40°C to +80°C; Zone 1, Ex ia IIB T4 Gb Ta = -40°C to +80°C;	
FM Standards	FM Class 3810 CAN/CSA-C22.2 No. 60079-0 CAN/CSA-C22.2 No. 60079-11 CAN/CSA-C22.2 No. 61010-1	
FM Certificates	FM20US0015X FM20CA0007X	
Regional approvals	CE EU: Covers RoHS, ATEX, RED FCC US & CA IMDA SG FM US & CA Other countries regional approvals can be certified upon request	
Accessories ans Spare Parts	
Type	Battery replacement kit