# **Sigfox Digital Input Node**



Smart Agriculture, Smart Building, Smart City, Smart Facility, Smart Farm, Smart Factory

### SKU: WSSFC-DI





Hazardous Zones

WSSFC-DI is a Sigfox-Ready node with digital inputs to detect logic status 0/1 OR counting pulses from the water meter, gas meter, power meter, proximity sensor, limit switch, machine output, pressure switch... Ultra-low-power design and smart firmware allow the sensor to run on a 2 x AA battery 1.5V for 10 years with one update per day. It can support Sigfox Zones RC1, RC2, RC3c, and RC4.

#### **Applications**

Electric Meter Reading, Gas Meter Reading, Water Meter Reading, Production Monitoring, Facility Monitoring, Flood Monitoring, Level Monitoring, Machine Health Monitoring, Safety Monitoring

#### **Notes For Applications**

- Accept the dry-contact output or voltage output with a max of 3 3V.
- Consider the shortest signal cable to avoid noise, especially for high-speed pulse applications;
- · Recommend using the shielded cable with twisted pairs;
- Take note of the signal's duty cycle to meet this device's requirement.

### Sigfox Ready

Device are best operating performance on the SIGFOX network

# ✓ Logic detecting or Pulse counting

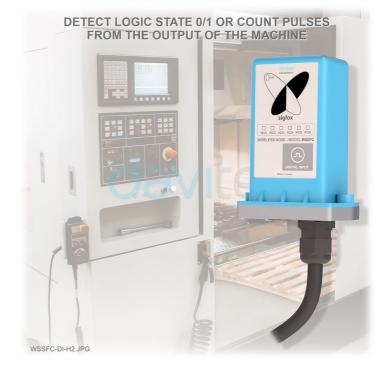
One device for multiple applications

## 10-Year battery

Ultra-low power sensing technology from Daviteq with Ultra-low power wireless technology allow the sensor can last up to 10 years with 02 x Type AA batteries.

### IP68

For both indoor and outdoor applications



#### **DAVITEQ TECHNOLOGIES INC**

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www.iot.daviteq.com

Created date: Mar-31-2023 Updated date: Aug-28-2024



# **Specification**

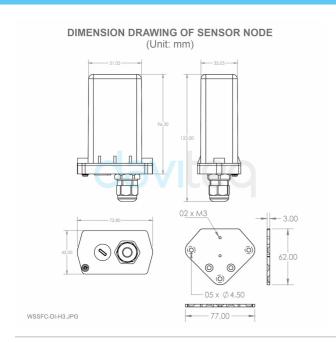
Digital Inputs	2-channel dry contact or low voltage (≤3.3V)
Operation	Detecting status or Pulse counting (max 1kHz)
VERSION	DI-12 (Low-speed digital input)
Input	2-Digital channel inputs with dry-contact or voltage input (max 3.3VDC)
Functions	Logic Detecting or Pulse Counting
	Logic Detecting: 2 channels, recommended minimum interval time between 02 statuses is 5 seconds.
	Pulse Counting: 1 channel only, max frequency 2Hz, minimum Pulse width (low or high) is 200mS, counter is uint32 type.
VERSION	DI-12H (High-speed digital input)
Input	2-Digital channel inputs with dry-contact or voltage input (max 3.3VDC)
Functions	Logic Detecting or Pulse Counting
	Logic Detecting: 2 channels, recommended minimum interval time between 02 statuses is 5 seconds.
	Pulse Counting: 2 channels, max frequency 1kHz, minimum Pulse width (low or high) is 200µS, counter is uint32 type.
COMMUNICATION	
Sigfox zones	select RC1-RC7
Sigfox Class	1u
Functions	Sending data in interval or when alarms occur
Antenna	Internal Antenna 2 dbi
Configuration	via Downlink of offline USB cable (PC software is supplied at free)
Electrical connection	Shielded cable 2m length with PG9 cable gland
Power Supply	Primary batteries 02 x AA size 1.5VDC (battery not included)
RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Working temperature	-40∼60°C (with AA L91 Energizer®)
Dimensions	H106xW73xD42
Net-weight	190g
Housing	Aluminum + Polycarbonate plastic, IP68

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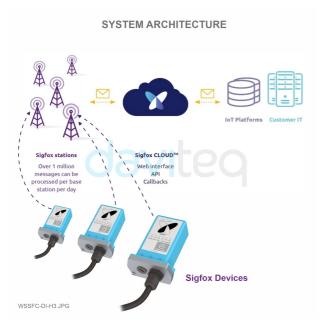
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# **Ordering Information**

ITEM CODE	DESCRIPTIONS
WSSFC-DI-12	Sigfox-Ready node with digital inputs, 2-channel, shielded cable 2m length with PG9 cable gland, internal antenna, type AA battery 1.5VDC, IP68.
WSSFC-DI-12H	Sigfox-Ready node with digital inputs, high speed 2-channel, shielded cable 2m length with PG9 cable gland, internal antenna, type AA battery 1.5VDC, IP68.

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