IoT monitoring

Manhole Cover and Water Immersion Monitor, NB-IoT and CAT.1

Model CS-iTWMD

Battery-powered manhole cover monitor with water immersion detection, reporting over NB-IoT or CAT.1, with IP68 protection, alarm delay under 30s and 3 years or more battery life.



Range
0° ~ 180°

Frequency
B1/3/5/7/8/20/28

Protection
IP68

Features

- NB-IoT and CAT.1 transmission
- Alarm delay <30s at RSRP ≥ -105 dBm
- Non-rechargeable ER1450*3+SPC1520 battery
- PC+ABS shell
- Operating temperature (-40–+85)°C

Applications

Manhole cover monitoring, Water immersion detection

Specifications

Wireless	
Working frequency (CAT1)	B1/3/5/7/8/20/28
Working frequency (NB-IoT)	B3/B5/B8

Electrical	
Operating voltage	ER1450*3+SPC1520, non-rechargeable
Battery life	≥ 3years (No less than 3,000 items)
Maximum working current	<350mA
Sleeping current	<25.0uA

Performance	
Measuring range	0° ~ 180°
Alarm delay	<30s (signal environment is good, with RSRP≥ -105 dBm)

Mechanical	
Protection level	IP68
Shell material	PC+ABS (anti-aging, anti-corrosion, anti-collision materials)

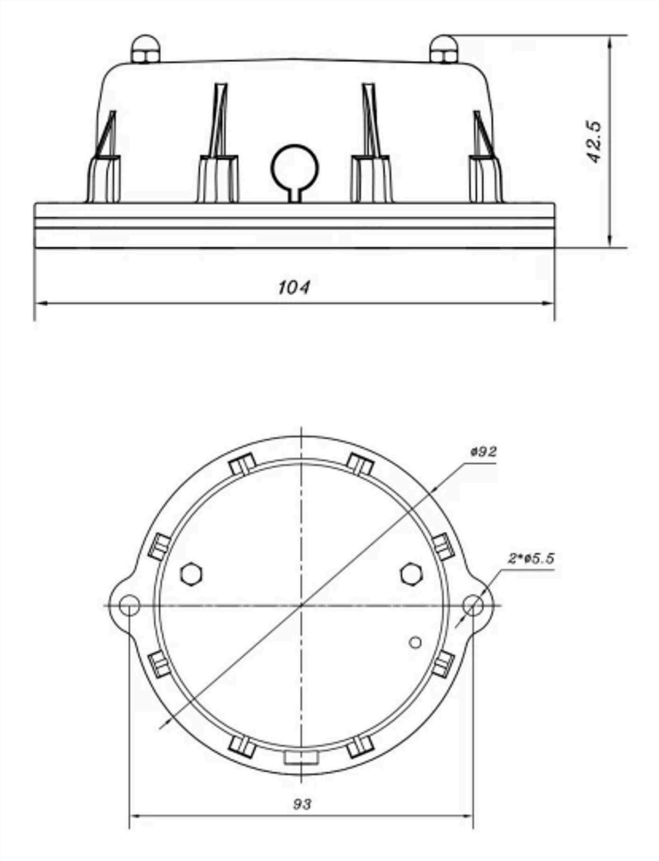
Environmental	
Operating temperature	(-40–+85)°C
Storage temperature	(-40–+85)°C

Ordering and support

Pricing, samples, lead time and custom versions: dwinsales@163.com, +86 181 0280 8901.

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Dimensions and wiring



Drawings are for reference. Dimensions in millimetres unless stated.