



Better FTTx, Better Life.



August, 2025

Technical Information

FCST-PUEM3 145.7kHz

Near-Surface Markers-For Water

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Near-Surface Markers

The Near-Surface Markers uses HDPE packaging and has the characteristics of chemical corrosion resistance and pressure resistance. It supports multiple industry applications and multiple working frequency options, such as: Telecom (145.7kHz) etc.



- Maximum burial depth up to 1 meter.
- Locates the exact position of the marker.
- HDPE packaging, resistant to chemical corrosion.
- Withstands a temperature range of -4 to 122 °F (-20 to 50 °C).
- Suitable for multiple industries (Power, Water, Sanitary, Telecom, Gas, Europower, General).



IP68

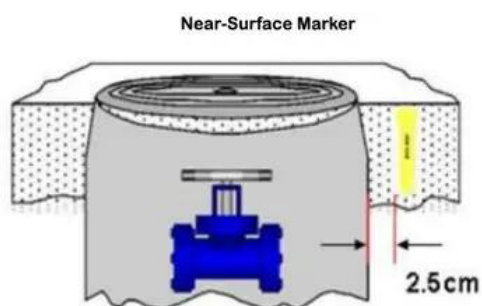
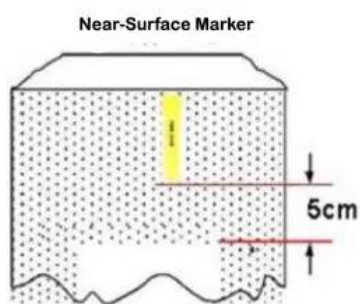


Product Specifications

Construction	Description
Product Type	EX.ID version
Frequency	145.7kHz
Identification Depth	0.7-1m (EX.ID version)
Service Life	50 years
Diameter	Φ20mm 0.787in
Height	76mm 2.992in
Material	HDPE
Weight	30g(±3g)
Protection Level	IP68
Storage Temperature	-20 to 70
Operating Temperature	-20 to 50
Drop Test	Can withstand the drop from 5 in (about 1.5 meters) to the concrete floor
Stress Resistance	Withstands 5 KN pressure without permanent damage, cracks, leaks, or electronic tag failure
Detector Compatibility	ED8000 or other detectors with the same frequency (for example: 3M Dynatel series) can read
Packaging Info.	1000pcs/cnt 27kg 0.0568cbm(415*415*330mm)



Product Applications



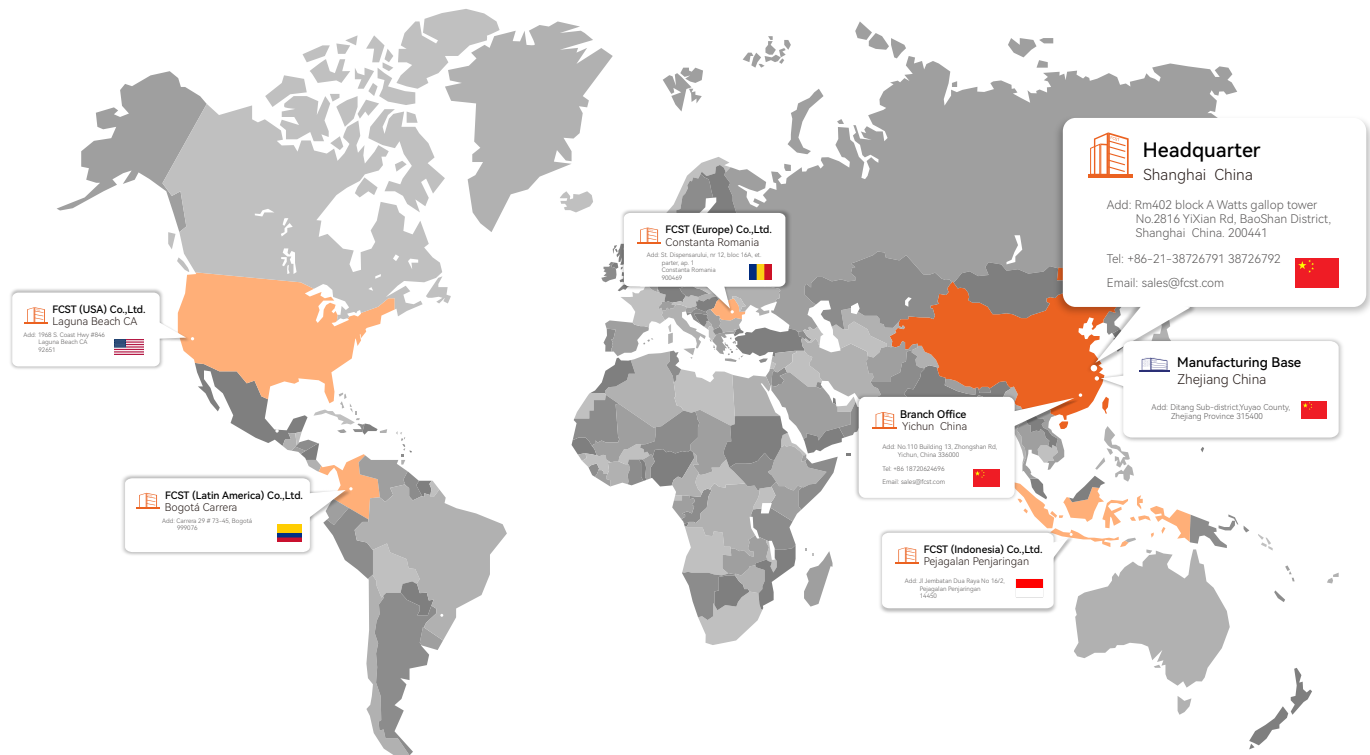
Related Products

Colour	Applications	Frequency	Picture
Purple	General Purpose and Reclaimed Water	66.35kHz	
Yellow	Gas	83.0kHz	
Orange	Telecom	101.4kHz	
Green	Sanitary	121.6kHz	
Black	Europower	134.0kHz	
Red	Electricity	169.8kHz	



Better FTTx, Better Life.

Fiber Cable Solution Technology Co.,Ltd.



FCST - Better FTTx, Better Life.

At FCST, we manufacture top-quality microduct connectors, microduct closure, telecom manhole chambers and fiber splice boxes since 2003. Our products boast superior resistance to failure, corrosion, and deposits, and are designed for high performance in extreme temperatures. We prioritize sustainability with mechanical couplers and long-lasting durability.

FCST aspires to a more connected world, believing everyone deserves access to high-speed broadband. We're dedicated to expanding globally, evolving our products, and tackling modern challenges with innovative solutions. As technology advances and connects billions more devices, FCST helps developing regions leapfrog outdated technologies with sustainable solutions, evolving from a small company to a global leader in future fiber cable needs.

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