



Better FTTx, Better Life.



July 2025

Technical Information

# FCST-MB83.0kHz Marker Ball -For Gas

M:+86 18720624696  
Email:sales@fcst.com  
Tel:+86-21-38726791 38726792

[www.fcst.com](http://www.fcst.com)

[www.micro-duct.com](http://www.micro-duct.com)





## FCST Marker Ball

The Marker Ball 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: Gas (83.0kHz) etc.



- No harmful fluid inside.
- Detection range up to <1.5m.
- High location precision marker ball.
- For manholes or direct buried installation.
- Self orientation RF reflector ensures best detection range and accuracy.
- The induction coil is suspended on the built-in antifreeze and can be kept horizontally upward.



**IP68**



### Product Specifications

| Construction             | Description                                                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Product Type             | EX.ID version                                                                                                                   |
| Frequency                | 83.0kHz                                                                                                                         |
| Identification Depth     | 1.5m                                                                                                                            |
| Maximum Detectable Depth | 1.5 m (EX.ID version)                                                                                                           |
| Service Life             | 50 years                                                                                                                        |
| Diameter                 | Φ120mm   4.724in                                                                                                                |
| Height                   | 115mm   4.528in                                                                                                                 |
| Material                 | HDPE                                                                                                                            |
| Weight                   | 400g(±20g)                                                                                                                      |
| Protection Level         | IP68                                                                                                                            |
| Storage Temperature      | -40℃ to +70℃                                                                                                                    |
| Operating Temperature    | -40℃ to +60℃                                                                                                                    |
| Marker Ball Distance     | Maximum distance 50m                                                                                                            |
| Drop Test                | Can withstand a 1.5m drop to the concrete floor.                                                                                |
| Stress Resistance        | Withstands 400kg pressure, the ball has no permanent damage, no cracks and leaks, and no damage to its electronic tag function. |
| Detector Compatibility   | ED8000 or other detectors with the same frequency (for example: 3M Dynatel series) can read                                     |
| Packaging Info.          | 30pcs/cnt 12.75kg 0.043cbm(560*225*340mm ) 18cnt/pallet 247kg 2.016cbm(2100*800*1200mm )                                        |



## Ordering Information

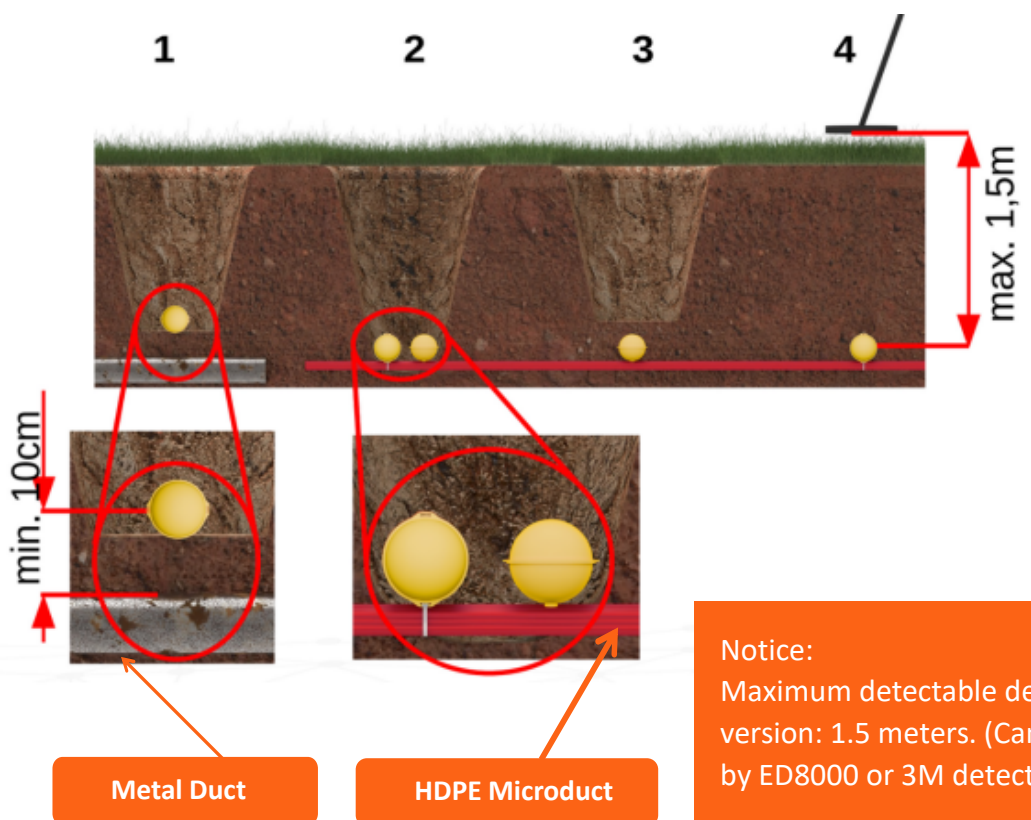
FCST-MB Marker Ball--

A

A- Accessory Type  
A1 Cable Tie  
A2 N/A



## Product Applications



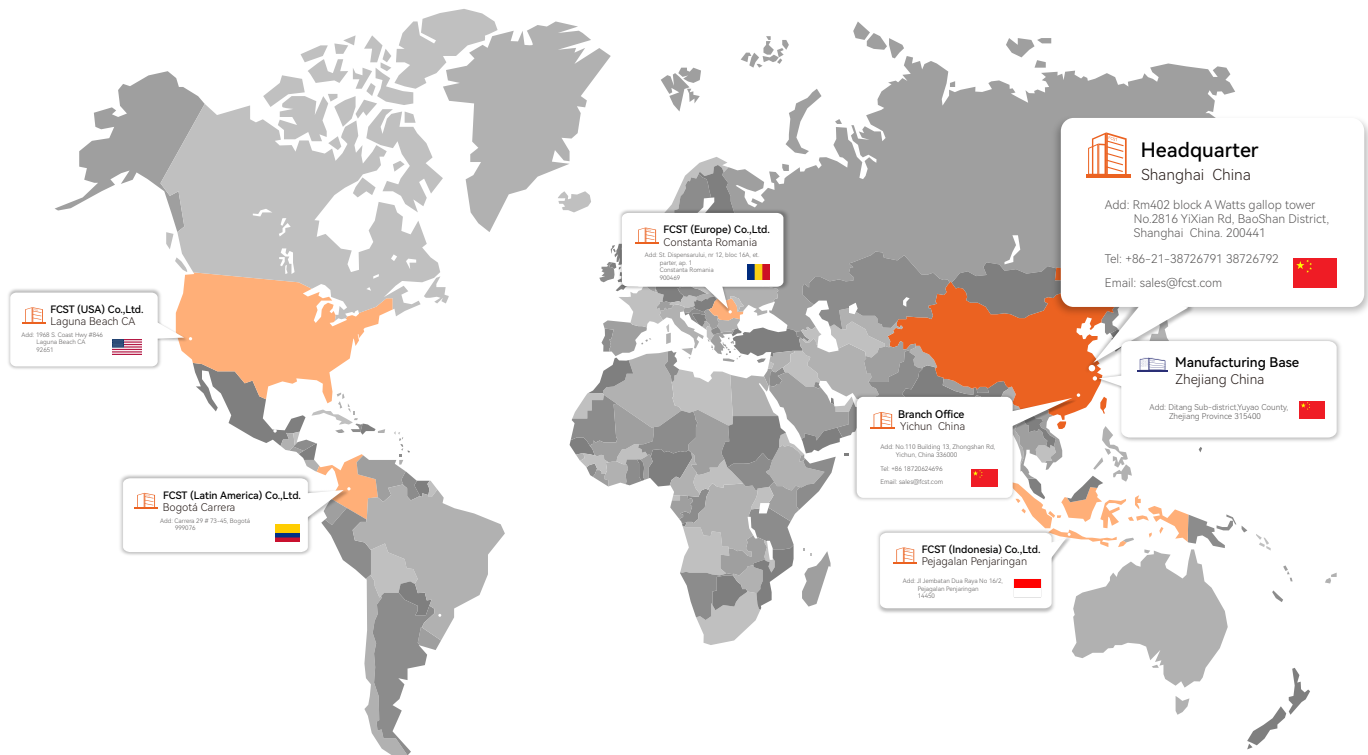

**Related Products**

| Colour       | Applications      | Frequency | Picture                                                                               |
|--------------|-------------------|-----------|---------------------------------------------------------------------------------------|
| Purple       | Non-Potable Water | 66.35kHz  |    |
| Black/Orange | Cable TV          | 77.0kHz   |    |
| Orange       | Telecom           | 101.4kHz  |    |
| Green        | Sanitary          | 121.6kHz  |    |
| Blue/Red     | Europower         | 134.0kHz  |   |
| Blue         | Water             | 145.7kHz  |  |
| 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.

Rm402 block A Watts gallop tower No.2816 YiXian Rd, BaoShan District, Shanghai 200441.  
Tel:+86-21-38726791 +86-21-38726792 Fax:+86-21-38726793

[www.fcst.com](http://www.fcst.com) [www.micro-duct.com](http://www.micro-duct.com)

