

Inclinometer Casing QJ (Quick Joint)





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Overview





Geosense[®] QJ Inclinometer Casing is a quick connecting casing, precision extruded from ABS, with four precise keyways formed at 90 degrees which allow accurate installation of portable and in-place inclinometers.

The quick connecting joint makes it faster and easier to install than traditional glue & socket inclinometer casing with external couplers and does not require any special tools or tapes. On deep installations the time saving is very significant.

It can be used in boreholes, fill material, cast into concrete or attached to structures and is designed to move with the ground, material or structure to provide inclination information over a period of time.

As the casing is designed to deform with movement of the ground or structure the useful life of the casing ends when the continued movement of the casing causes deformation of shear so that the inclinometer probe can no longer be placed into the casing. Larger casing generally ensures a longer life.

Where vertical settlement or heave is anticipated to be greater than 2% it is recommended to use telescopic sections to eliminate axial load on the casing which would cause excessive buckling.

A full range of accessories including bottom and top caps, anchors and groutable anchors are available and can be used in conjunction with magnetic targets for combined inclinometer/ magnetic extensometers.

APPLICATIONS

For use with inclinometer systems for monitoring stability & movement of:
Slopes
Embankments
Diaphragm & sheet piled walls
Deep foundations
Tunnelling operations
Piles
Pre-loads
Deep excavations

FEATURES

Low spiral	
Fast installation	
No rivets, tape or glue	
Minimises standing time	
Flush connection	
Available in 3 & 1.5 metre lengths	
Made from 100% virgin ABS plastic	
Simple to install & use	
Fully compatible with all probe types	
70 and 83mm diameters	
Telescopic sections available	

Can be combined with magnetic targets

Specifications

Material 100% virgin ABS (Acrylonitrile-butadiene-styrene) Groove spiral <0.3°/3m Collapse resistance ~2000kPa Joint strength 186 Kgf Torque 26Nm Bend rating 2.6kN Maximum temperature +80°C Colour Orange (other available on request) CASING DIMENSIONS 2.5kA Otside diameter 5.9mm Inside diameter 5.9mm Inside diameter 5.9mm STANDARD COUPLER DIMENSIONS 1.5 k3 metre Otside diameter 70mm 8mm Inside diameter 59mm 8mm Inside diameter 59mm 8mm Inside diameter 59mm 8mm Inside diameter 59mm 8mm Inside diameter 12Ks/m 13ks/m Inside diameter <td< th=""><th>CASING SPECIF</th><th>ICATIONS</th><th></th></td<>	CASING SPECIF	ICATIONS	
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Outside diameter83mm90mmInside diameter59mm85mmLength500mm500mmWEIGHTS500mm1.27kg/mCasing1.27kg/m1.35kg/mTelescopic section1.6kg2kgTop cap20g28gBottom plug168g200gACCESSORIESStandard Anchor70mm83mmGrout Anchor70mm83mm	Length	160mm	200mm
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Grout Anchor 70mm 83mm	ACCESSORIES		
	Standard Anchor	70mm	83mm
Grout Cap 70mm 83mm	Grout Anchor	70mm	83mm
	Grout Cap	70mm	83mm

Inclinometer Casing QJ (Quick Joint)

Casing Accessories







ACCESSORIES

Casing Accessories include, from left, Centralisers, Caps and Guides

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