







Overview





Geosense® XC (External Coupler) Inclinometer Casing is precision extruded from ABS, with four precise keyways formed at 90 degrees which allow accurate installation of portable and inplace inclinometers.

Standard joints are made by using external couplers which are glued to each end of the casing. Telescopic sections are riveted together to allow movement during settlement and sealed with mastic and tape to prevent the ingress of water and grout.

Advantages of the XC Inclinometer casing is that it can be cut and re-joined on site allowing maximum flexibility and makes any damage easily repairable.

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 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

Can be cut & repaired on site

Available in 3 & 1.5 metre lengths

Made from 100% virgin ABS plastic

Fully compatible with all probe types

70 mm diameter

Telescopic sections available

Can be combined with magnetic targets

Specifications

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Material	100% virgin ABS (Acrylonitrile-butadiene-styrene)				
Groove spiral	< 0.3°/3m				
Collapse resistance	~ 2000kPa				
loint strength	710 Kgf				
Гоrque	525Nm				
Bend rating	2.6kN				
Maximum temperature	+80°C				
Colour	Natural (other available on request)				
CASING DIMENSIONS					
Outside diameter	70mm	87mm			
nside diameter	62mm	80mm			
ength (effective)	3 & 1.5 metre	3 & 1.5 metre			
STANDARD COUPLER DIMENSIONS					
Outside diameter	77mm	95mm			
nside diameter	70mm	87mm			
_ength	160mm	190mm			
TELESCOPIC COUPLER DIMENSIONS					
Outside diameter	77mm				
nside diameter	70mm				
_ength	400mm				
Telescopic range	±75mm				
WEIGHTS					
Casing	2.66kg/m	3.18kg/m			
Гор сар	48g	64g			
Bottom plug	70g	90g			
Standard coupler	136g	236g			
Telescopic coupler	400g	380g			
NSTALLATION ACCESSORIES					

Casing Accessories









ACCESSORIES

Casing Accessories include, above from left, Reed Switch Probe Centraliser & Tape Guide, Top & Bottom Caps and Suspension Clamps.

ORDERING INFORMATION

Diameter
Length
Telescopic sections
Bottom cap
Тор сар
Anchor type





Geosense Ltd, Nova House, Rougham Industrial Estate, Rougham, Bury St Edmunds, Suffolk IP30 9ND, England

www.geosense.co.uk e sales@geosense.co.uk t +44(0)1359 270457

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