

DATASHEET



REFLECTIVE TARGETS

For Structural Health Monitoring

Model ERT-10/20

INTRODUCTION

Encardio-rite reflective targets are designed to suit a wide variety of surveying applications. They are used extensively for measurement of deformation during tunneling and subway construction, for monitoring bridges, dams, slopes and building structures.

FEATURES

- Precise, rugged, interchangeable and low cost
- Compact construction
- Easy installation
- Robust frame and bolts with firm grip
- Precise surveying application where total stations are used.

APPLICATION

- Measurement of deformation in tunnel
- Measurement of deformation in subway construction
- Monitoring of dams, bridges and slopes
- Monitoring of building structures
- Surveying works.



DESCRIPTION

Model ERT-10B Bireflex target

Model ERT-10B bireflex target consists of reflector mounted on a robust frame. The target has reflectors on both the sides and is mounted on a universal joint such that it can be oriented in any direction as required. The target has a small centre hole to allow precise targeting.



The bireflex target is made of high performance materials and precise manufacturing processes. The target is thus, interchangeable.

Model ERT-10P Prism target

Model ERT-10P prism target consist of a mini prism mounted on a robust frame. This is also mounted on a universal joint such that it can be oriented in any direction as required. The target is interchangeable.



Optional components

The optional components which can be ordered separately with both model ERT-10B and ERT-10P include convergence bolts with protective cap and adaptor with reference break-off point. The break-off point adaptor is required to mount the target on the convergence bolts.



Model ERT-20P2-M1 Mini prism target

Model ERT-20P-M1 mini prism consists of a prism mounted on a swivel bracket. This target is not interchangeable.



SPECIFICATIONS

ERT-10B Bireflex target (Part # 11-05150)

Measuring range	Approximately 12 m to 140 m
Manufacturing accuracy	± 0.1 mm
Material	Reflector support is plastic, mounted on universal joints with reflective foil on both sides

ERT-10P2 Prism target (Part # 11-06032)

Measuring range	Approximately 0.3 m to 600 m
Manufacturing accuracy	± 0.1 mm
Addition Constant	+17.5 mm
Material	Prism support is plastic, mounted on universal joints

Protective cap (Part # 11-10053)

Material	Red polyvinyl chloride
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Break-off point 12 mm (Part # 11-05133)

Material	Plastic - Acetal
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Break-off point 8 mm (Part # 11-13024)

Material	Plastic - Acetal
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ERT-20P2-M1 Mini prism target (Part # 11-06035)

Measuring range	Approximately 0.3 m to 600 m
Addition constant	+17.5 mm

Convergence bolts 12 mm dia (Part # 11-10052)

Material	Galvanised steel rebar 12 mm with stainless steel threaded stud
Length	170 mm standard

Convergence bolts 8 mm dia (Part # 11-13025)

Material	Galvanised steel rebar 8 mm with stainless steel threaded stud
Length	170 mm standard

*All specifications are subject to change without prior notice

DATASHEET|2111-21R04



TUNNELS



HYDROELECTRIC



CONSTRUCTION



STRUCTURAL



METRO&RAIL



BRIDGES



MINING

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