

15 mm DI periscope assembly

The 15 mm DI periscope assembly (A-5225-0634) contains two mirrors which increase the offset between measurement and reference beams of the RLD10-X3-DI differential interferometer detector head by 15 mm (0.59").

This 15 mm offset produces a beam separation of 29 mm (1.14") as opposed to the 14 mm (0.55") beam separation provided by the differential interferometer alone.

This document provides information on the correct procedure to install the periscope assembly.

Installation kit contents:

- 1 off periscope assembly
- 1 off 4 mm A/F hex key
- 3 off M5 x 20 screws
- 1 off installation guide



Figure 1: RLD10-X3-DI differential interferometer and periscope assembly

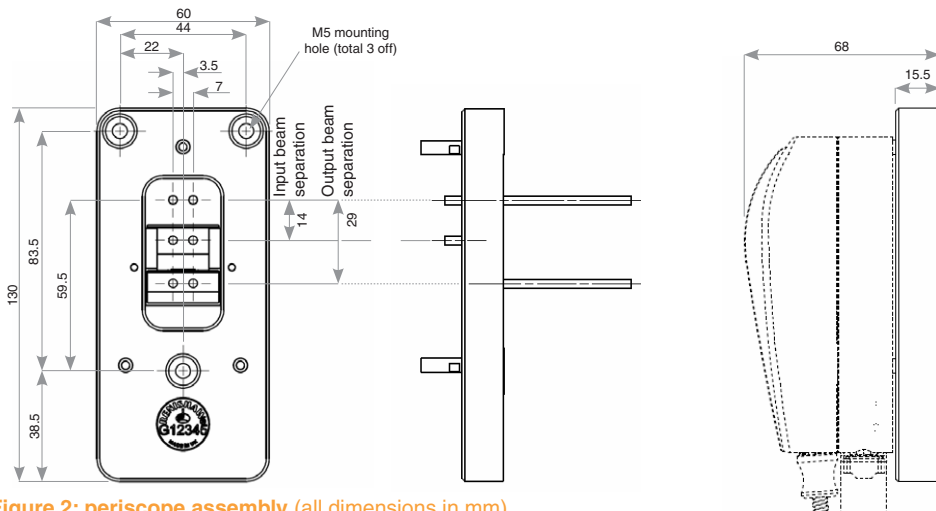


Figure 2: periscope assembly (all dimensions in mm)

Installation

Three off tapped M5 x 12 deep fixing holes must be provided, as shown in Figure 2. The periscope assembly is then mounted to the machine wall in the required position using the screws and hex key provided. Once the assembly is secured in position, the RLD10-X3-DI differential interferometer should be mounted and aligned according to the instructions provided in the *RLE fibre optic laser encoder installation manual*.

Optical cleaning

It is recommended that optical surfaces be cleaned only when necessary. If the signal strength is low, first ensure that beam alignment is optimised, as this may be the cause of the reduced signal strength.

Mirrors should only be cleaned with a soft, lint-free cloth.

Further information

For information on RLD10-X3-DI differential interferometer installation procedures, see the *RLE fibre optic laser encoder installation manual*.

For detailed dimension and specification information on the differential interferometer, see the *RLD10 DI (differential interferometer) detector head data sheet*.

