

# MOUNTING BRACKET KIT - TYPE EB INSTALLATION INSTRUCTIONS

## 1. INTRODUCTION

This mounting bracket kit is for securing a B or T Series light curtain to a wall, mounting surface or floor post.

Each kit comprises:-

- 4 x Bracket Plate
- 8 x M4 Posi Pan Head Screw
- 8 x M4 Shakeproof Washer
- 1 x Installation Instruction Sheet

Both the top and bottom end caps on the emitter and receiver columns have pre-drilled holes to accept the M4 bracket securing screws. The correct orientation of the bracket plates will have to be determined on site.

## 2. INSTALLATION

Secure the bracket plates to each end cap with the M4 screws and washers provided, see Figure 1 ensuring the orientation of the bracket is correct to suit where the guard is to be finally positioned. The bracket plate may only be fitted in either of the two positions as shown below see Figure 2.

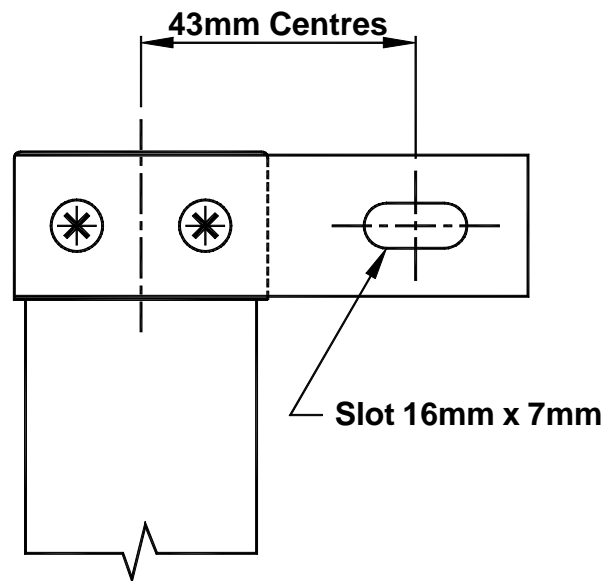


Figure 1

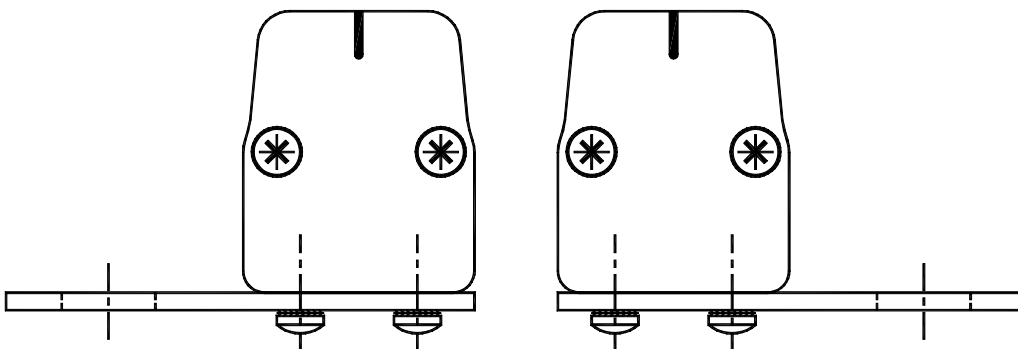


Figure 2

# ADJUSTABLE MOUNTING BRACKET KIT - TYPE AB

## INSTALLATION INSTRUCTIONS

### 1. INTRODUCTION

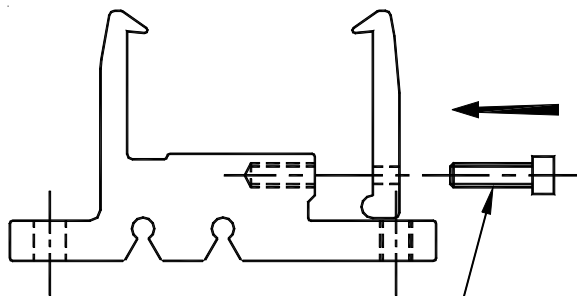
This mounting bracket kit is for securing a light curtain to a wall, mounting surface or floor post in the vertical axis and has angular adjustment if required.

Each adjustable mounting bracket kit comprises:

- 4 x Mounting Bracket Main Body
- 4 x Clamp Plate
- 4 x M4 x 16mm Cap Allen Screw (Clamp plate screw)
- 8 x M6 x 16mm Cap Allen Screw (Adjustment screw)
- 1 x Installation Instruction Sheet

Owing to the tight acceptance angles specified by current standards, it is important that the emitter and receiver units are mounted so that they are as optically aligned as possible.

Assemble the mounting brackets as follows:



Clamp plate screw  
Figure 1

### 2. INSTALLATION TO A WALL OR MOUNTING SURFACE

2.1. Mark the positions where the guard is to be located ensuring that the mounting surfaces are flat and even.

2.2. The greater the care taken in positioning and securing the guard, the easier it will be to align the system.

2.3. Secure the brackets to the wall / mounting surface, ensuring that they are vertically aligned. Locate the columns in the mounting brackets and tighten clamp plates.

2.4. Any vertical adjustment required may be obtained by slackening the clamp plates and raising / lowering one column until the beams are optically aligned.

2.5. Once in alignment the clamp plate securing screw may then be fully tightened.

2.6. Any rotational / lateral adjustment may be achieved via the M6 jacking screws, adjacent to the securing screws on the mounting bracket body.

See figure 2 and 3

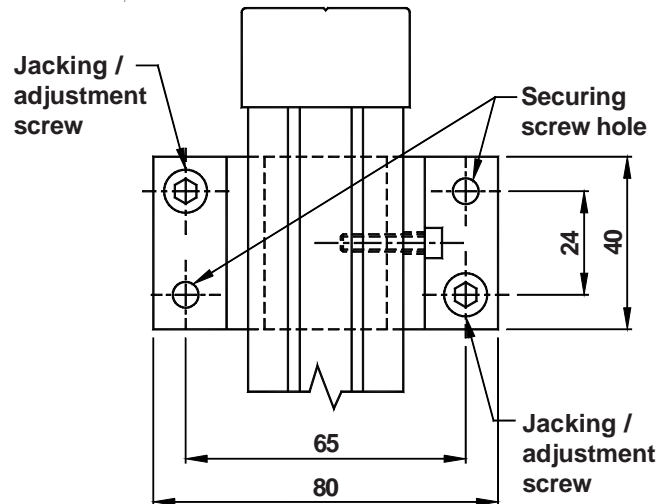


Figure 2

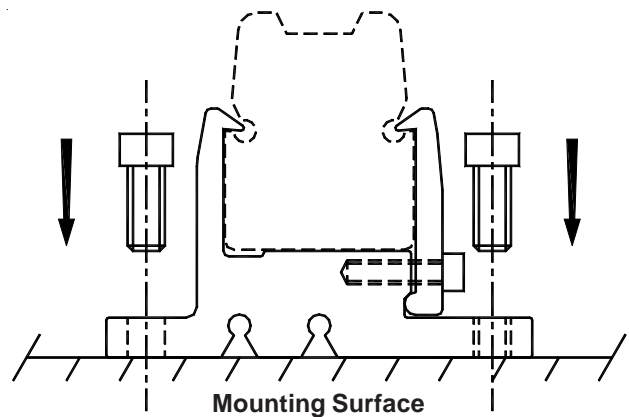


Figure 3

**Care must be taken to ensure that the amount of adjustment for both top and bottom mounting brackets is equal, to prevent the column from twisting and therefore distorting the optical beam alignment.**

2.7. Once the two columns are optically aligned, tighten the mounting bracket body securing screws.

### 3. INSTALLATION TO A FLOOR POST

3.1. Mark the position on the front face of the floor post where the light curtain is to be located. Ensure that the mounting brackets are positioned at the same height on both emitter and receiver floor posts. It is important that the brackets are positioned centrally on the floor post.

3.2. Secure mounting brackets to the floor post in one of two ways:

a) Drill clearance holes (M5) right through the floor post and secure brackets in place with M5 x 100mm long bolts, nuts and washers.

b) Drill holes 4.2mm diameter through the front face only of the floor post and tap M5. Secure brackets in place with M5 x 20mm cap allen screws. See figure 4.

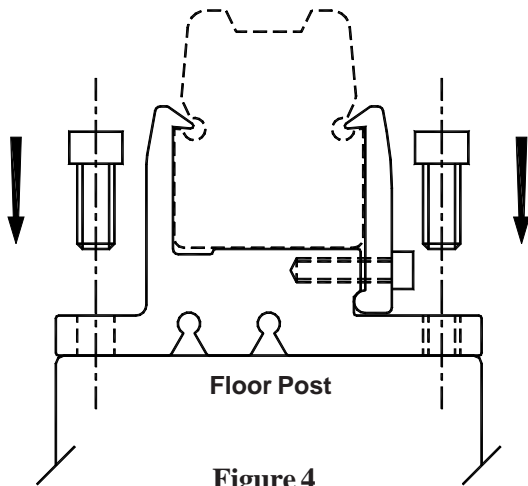


Figure 4

3.3. Locate columns in the mounting brackets and adjust to correct height and tighten clamp plates. See figure 5.

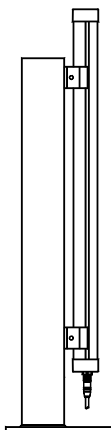


Figure 5

3.4. Place floor posts in required position ensuring that the emitter and receiver columns are both level horizontally and vertically and then visually align.

3.5. Any rotational / lateral adjustment may be achieved via the M6 jacking screws, adjacent to the securing screws on the mounting bracket body.

See figure 2 and 4.

**Care must be taken to ensure that the amount of adjustment for both top and bottom mounting brackets is equal, to prevent the column from twisting and therefore distorting the optical beam alignment.**

3.6. Secure the floor posts in this position via the central front mounting hole (A) see figure 6. Once both floor posts have been secured, check guards are still in alignment. If so secure via the two rear adjustable mounting slots (B) see figure 6. If any adjustment is required to bring the guard back into alignment this may be achieved by either:

a) Rotating the floor post via slots (B) see figure 6.

b) Adjusting the jacking screws (C) for tilt see figure 6.

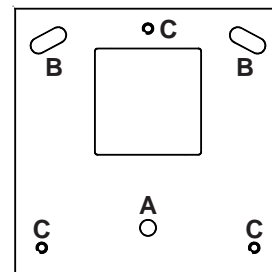


Figure 6

3.7. Any vertical adjustment required may be obtained by slackening the clamp plates and raising / lowering one column until the beams are optically aligned.

3.8. Once in alignment the floor post mounting screws and clamp plate securing screw may be fully tightened.

# CLAMP MOUNTING BRACKET KIT - TYPE CB INSTALLATION INSTRUCTIONS

The clamp mounting brackets and their associated hardware are provided with the emitter and receiver units. The brackets have been specially designed to allow adjustment.

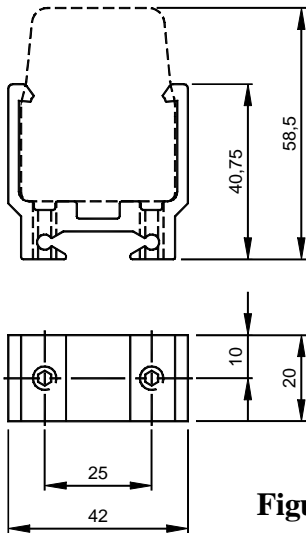
Each unit is supplied with two clamp brackets fitted. The clamp bracket is a short piece of extruded aluminium which is designed to interlock with the unit housing extrusion and clamps in position on the rear of the housing by means of two grub screws supplied. The clamp bracket dimensions are shown in Figure 1.

The clamp brackets can be moved to any position over the length of the unit.

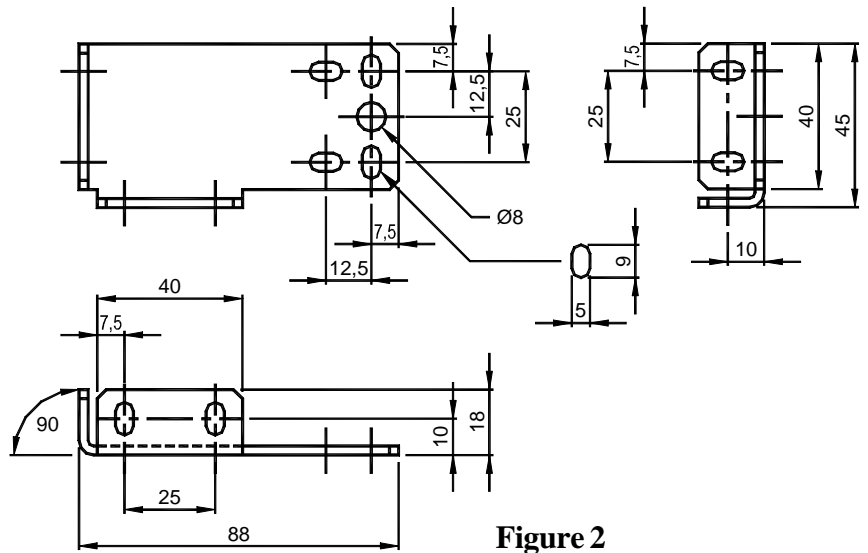
Four wall brackets are supplied with each system together with the 8 self tapping screws needed to fix the wall brackets to the clamp brackets. The wall bracket dimensions are shown in Figure 2.

The alternative mounting arrangements which these brackets facilitate are shown in Figures 3, 4 and 5.

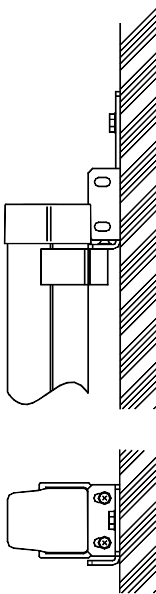
The internal construction of the units is such that they withstand normal levels of vibration and shock. In situations where the vibration of the machine cannot be reduced to normal levels, vibration proofing mountings should be used.



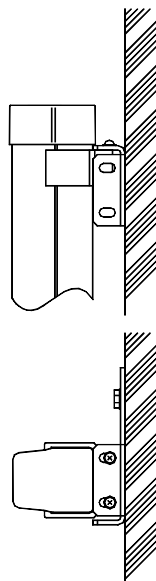
**Figure 1**



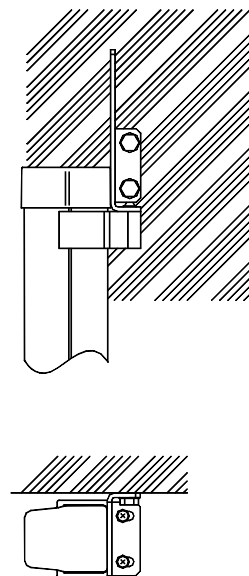
**Figure 2**



**Figure 3**



**Figure 4**



**Figure 5**