
OPTICAL

SYSTEMS

DESIGN

OPERATOR MANUAL

DIN RAIL UNIVERSAL ADAPTOR

OPTICAL SYSTEMS DESIGN

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1 TECHNICAL SUMMARY

1.1 BRIEF DESCRIPTION

1.1.1 OVERVIEW

The DIN RAIL universal adaptor is a DIN rail mounting plate where OSD modules can be safely mounted using captivated screws as set out in this manual. OSD produces a number of module products in various size cases and the DIN rail universal adaptor is designed to accommodate these modules.

The DIN RAIL universal adaptor uses the standard DIN rail latch located on the rear of the adaptor while the side plate provides a number of threaded holes to accommodate the various modules.

This manual provides information and drawings for all OSD module sizes and, providing that the recommended mounting holes are used for the module used, the OSD case/module can be safely secured onto a standard DIN rail.

1.1.2 APPLICATIONS

▲ Use where DIN rail mounting is required.

1.1.3 FEATURES AND BENEFITS

- ▲ One mounting plate to suit all OSD module sizes
- ▲ Securely attaches the OSD module to a DIN rail environment
- ▲ Standard DIN rail mounting clips

1.2 TECHNICAL SPECIFICATIONS

Specification	Performance
Physical	
Form factor	Designed to fit standard DIN rail mountings
Outer dimensions (mm)	194W x 147D x 40H
Weight	0.2kg

2 PHYSICAL DIMENSIONS

Figure 1 shows the OSD DIN rail dimensions in mm.

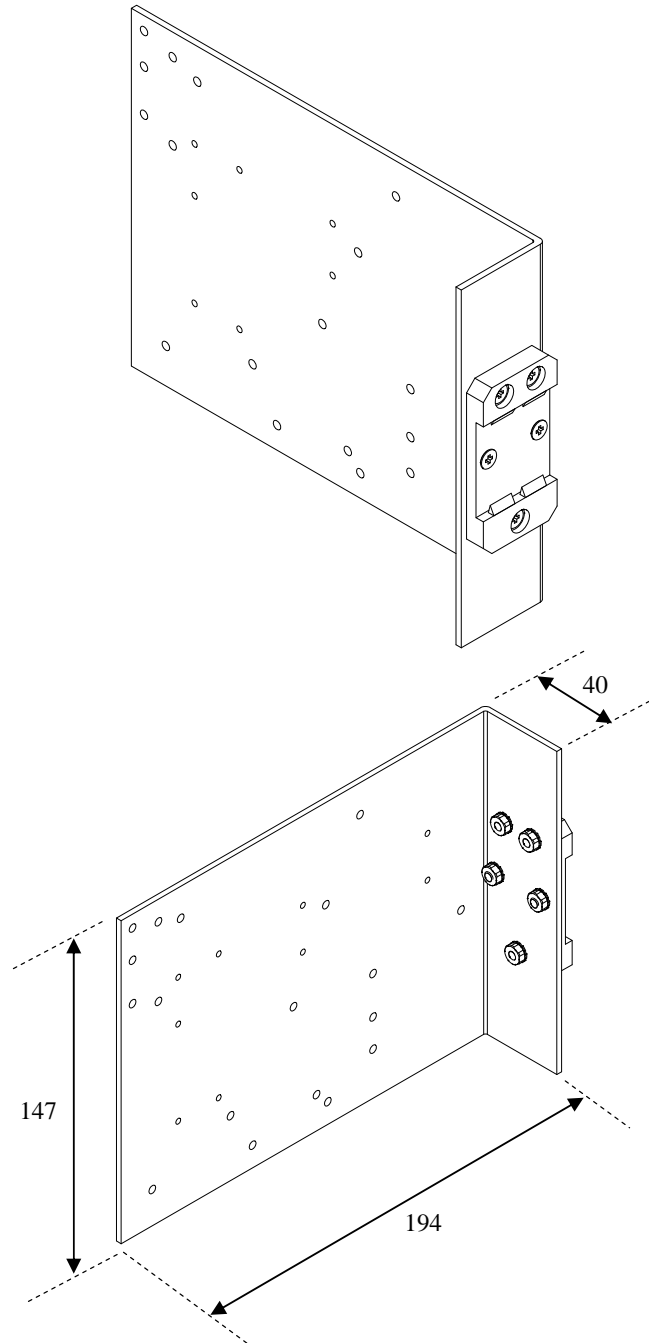


FIGURE 1: OSD DIN RAIL DIMENSIONS

3 INSTALLATION

There are various standard sized OSD modules which fit onto the DIN rail universal adaptor using M3 and/or M4 screws. The following information should be used to correctly and securely mount your module onto the DIN rail universal adaptor.

The extrusion and clamshell case can be easily identified by observing the four mounting keyholes located on the case flange. The extrusion case has a double keyhole (a) while the clamshell case has a single keyhole (b) (see Figure 2)

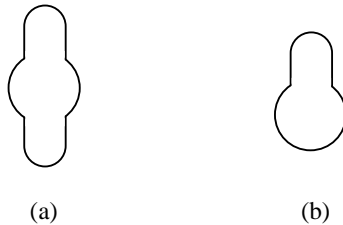


FIGURE 2: KEYHOLE TYPES

As an example, the DIN rail universal adaptor can mount two small extrusion case units as shown in Figure 3. All other OSD cases can be mounted in a similar fashion providing the correct screw mounting holes are used. The proceeding information is broken up into OSD case categories and location of screw holes (marked as a solid black dot) used to correctly mount the OSD case.

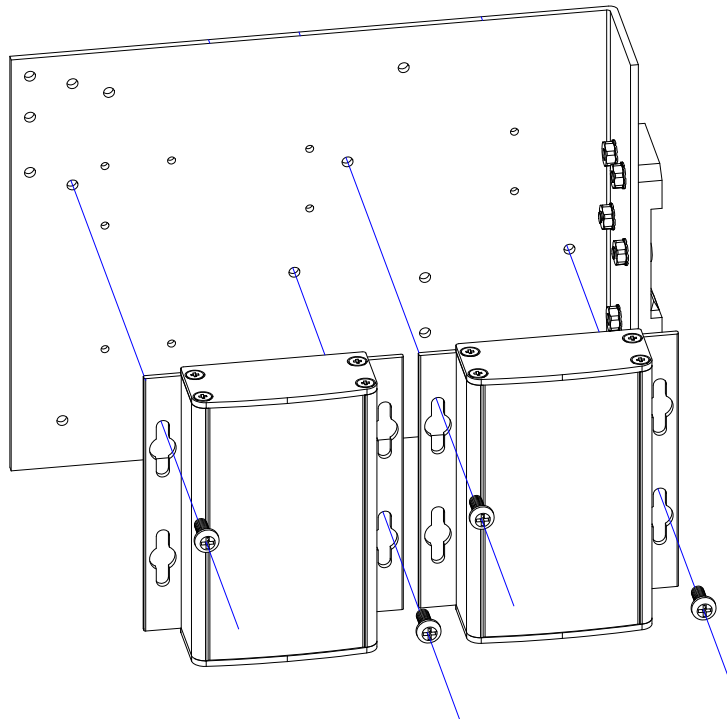


FIGURE 3: MOUNTING EXAMPLE

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3.1 ELLIPTICAL MOUNTING BASE

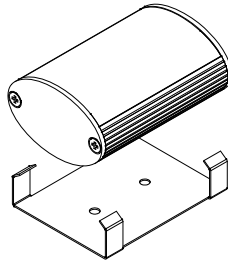


FIGURE 4: ELLIPTICAL MOUNTING BASE

Products such as the OSD8817 and the like use an extrusion mounting base to mount the unit securely. This mounting base will need to be mounted onto the DIN rail universal adaptor first using M3 screws. The DIN rail universal adaptor provides mounting of up to three elliptical mounting bases. Figure 5 shows the various ways to mount the OSD units and the screw mounting holes to use.

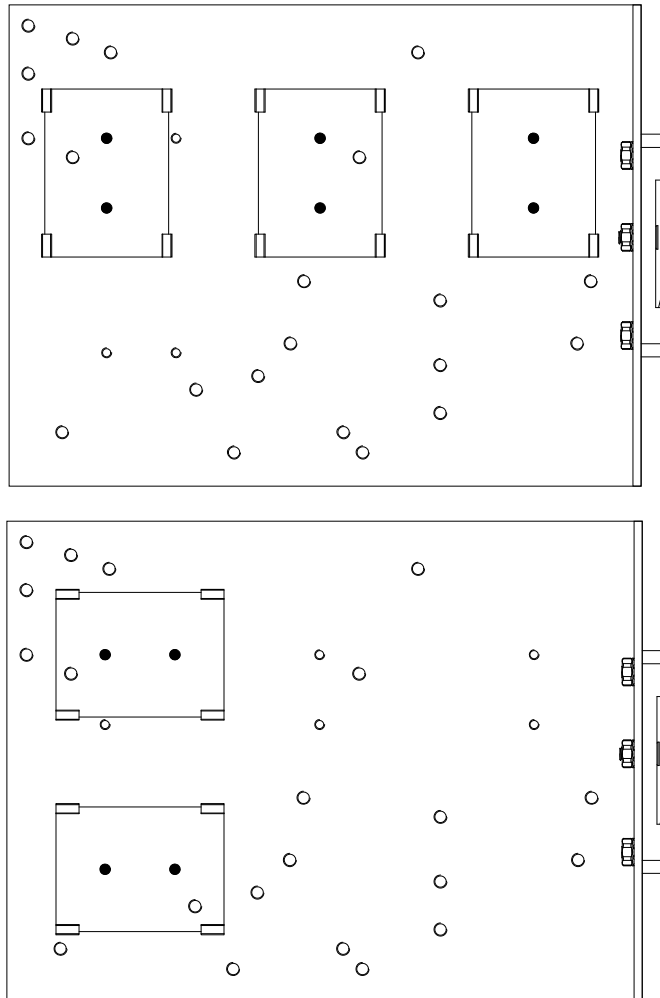


FIGURE 5: ELLIPTICAL MOUNTING

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3.2 D-EXTRUSION MOUNTING BASE

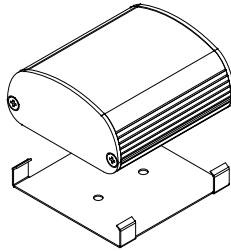


FIGURE 6: D-EXTRUSION MOUNTING

Products such as the OSD2051 and the like use a D-extrusion mounting base to mount the unit securely. This mounting base will need to be mounted onto the DIN rail universal adaptor first using M3 screws. The DIN rail universal adaptor provides mounting of up to three D-extrusion mounting bases. Figure 7 shows the various ways to mount the OSD units and the screw mounting holes to use.

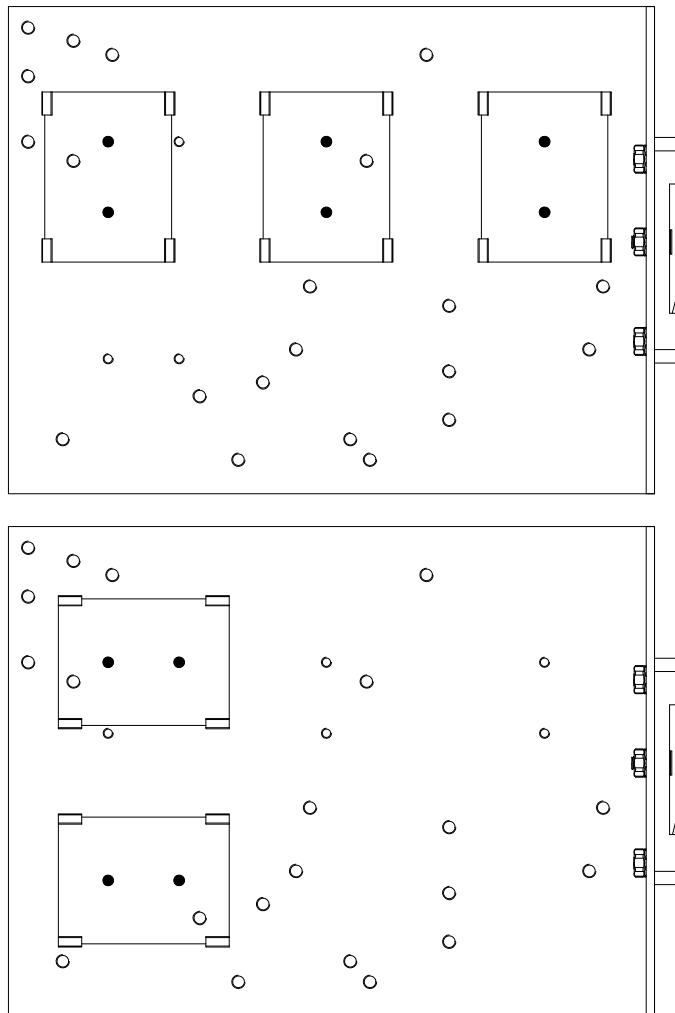


FIGURE 7: D-EXTRUSION MOUNTING

3.3 SMALL EXTRUSION CASE

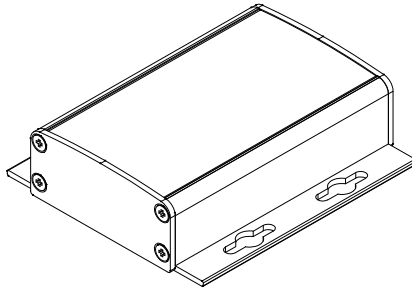


FIGURE 8: SMALL EXTRUSION

Products such as the OSD2041 and the like can be mounted directly onto the DIN rail universal adaptor using M4 screws. The DIN rail universal adaptor provides mounting of up to two small extrusion units. Figure 9 shows the various ways to mount the OSD units and the screw mounting holes to use.

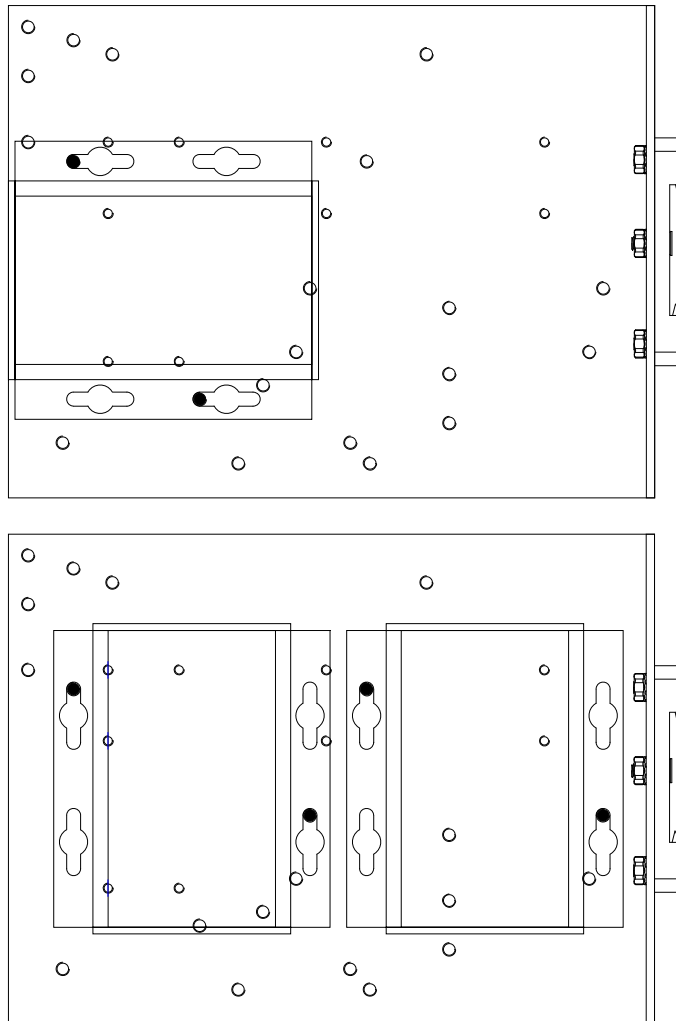


FIGURE 9: SMALL EXTRUSION MOUNTING

3.4 MEDIUM EXTRUSION CASE

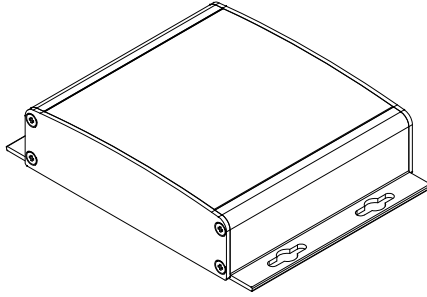


FIGURE 10: MEDIUM EXTRUSION CASE

Products such as the OSD8816 and the like can be mounted directly onto the DIN rail universal adaptor using M4 screws. The DIN rail universal adaptor provides mounting of one unit in two possible orientations. Figure 11 shows the various ways to mount the OSD unit and the screw mounting holes to use.

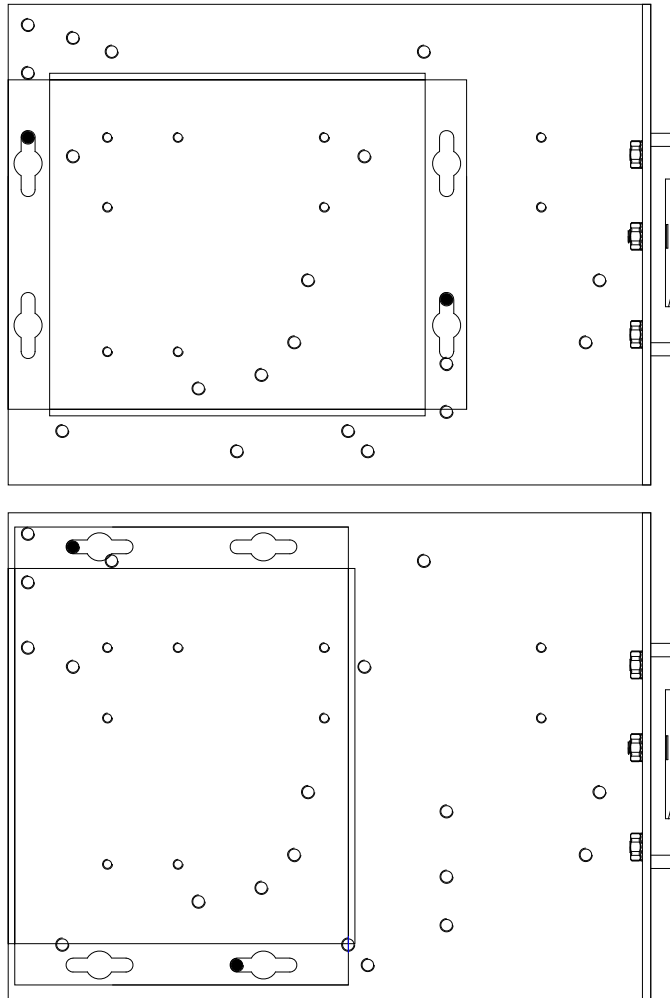


FIGURE 11: MEDIUM EXTRUSION MOUNTING

3.5 LONG EXTRUSION CASE

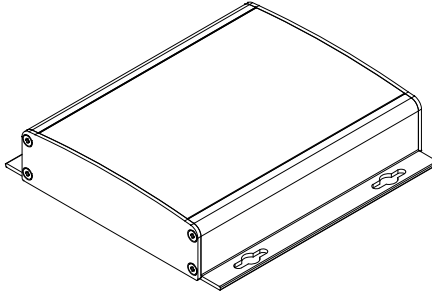


FIGURE 12: LONG EXTRUSION CASE

Products such as the OSD818 and the like can be mounted directly onto the DIN rail universal adaptor using M4 screws. The DIN rail universal adaptor provides mounting of one unit in two possible orientations. Figure 13 shows the various ways to mount the OSD unit and the screw mounting holes to use.

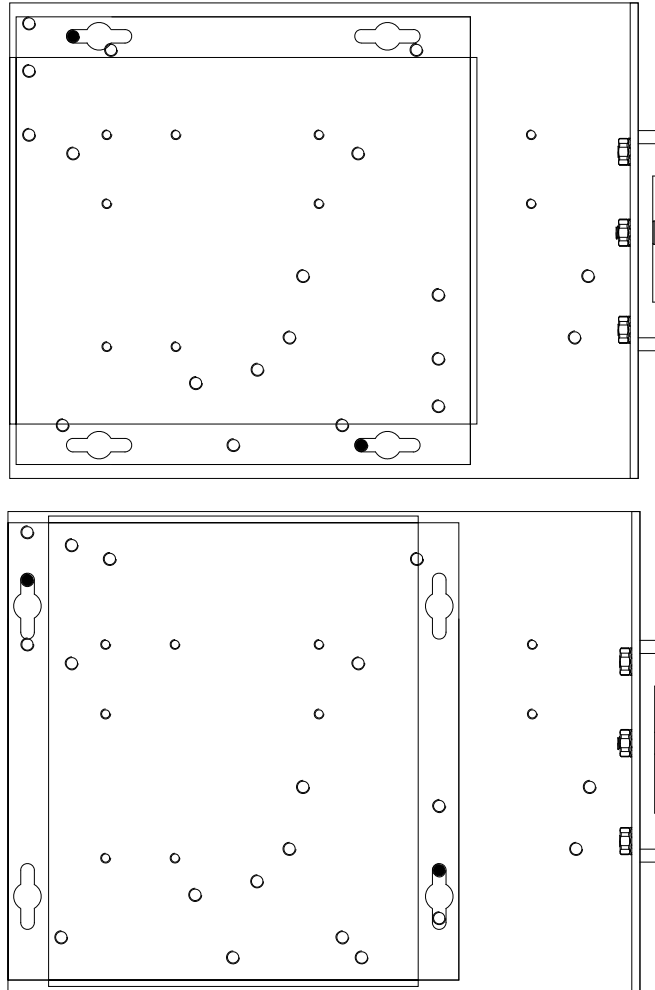


FIGURE 13: LONG EXTRUSION MOUNTING

3.6 EXTRA LONG EXTRUSION CASE

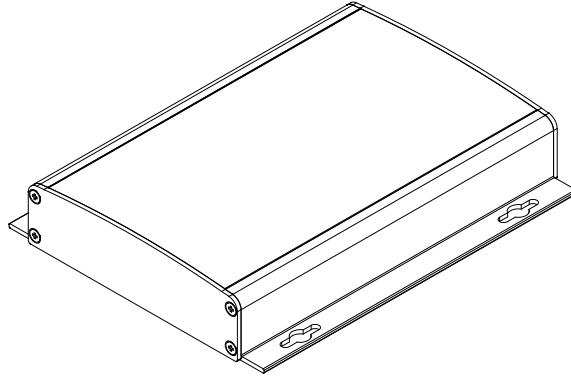


FIGURE 14: EXTRA LONG EXTRUSION CASE

Products such as the OSD2244 and the like can be mounted directly onto the DIN rail universal adaptor using M4 screws. The DIN rail universal adaptor provides mounting of one unit. Figure 15 shows the method to mount the OSD unit and the screw mounting holes to use.

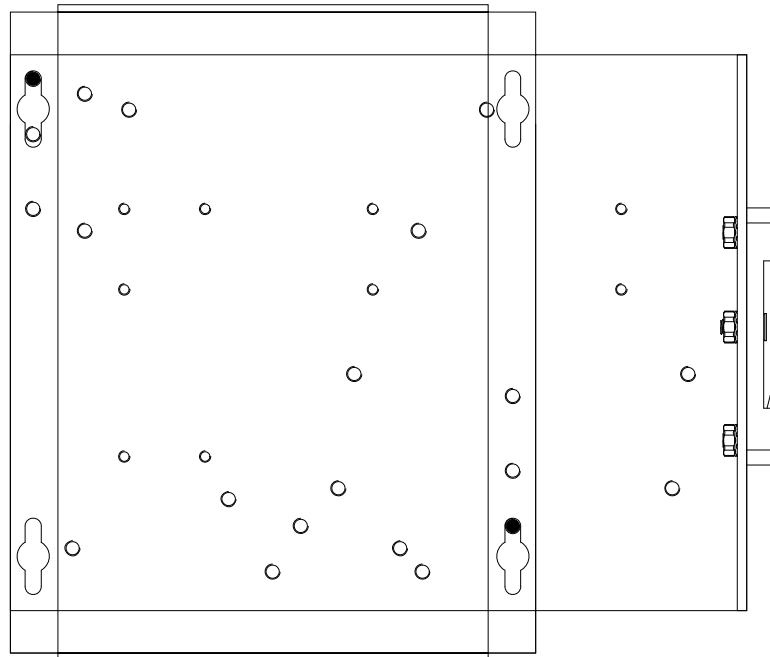


FIGURE 15: EXTRA LONG EXTRUSION MOUNTING

3.7 SMALL CLAMSHELL CASE

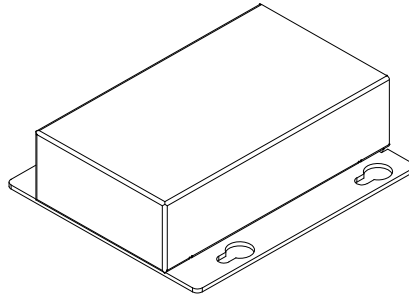


FIGURE 16: SMALL CLAMSHELL CASE

Products such as the OSD381 and the like can be mounted directly onto the DIN rail universal adaptor using M4 screws. The DIN rail universal adaptor provides mounting of up to two small extrusion units. Figure 17 shows the various ways to mount the OSD units and the screw mounting holes to use.

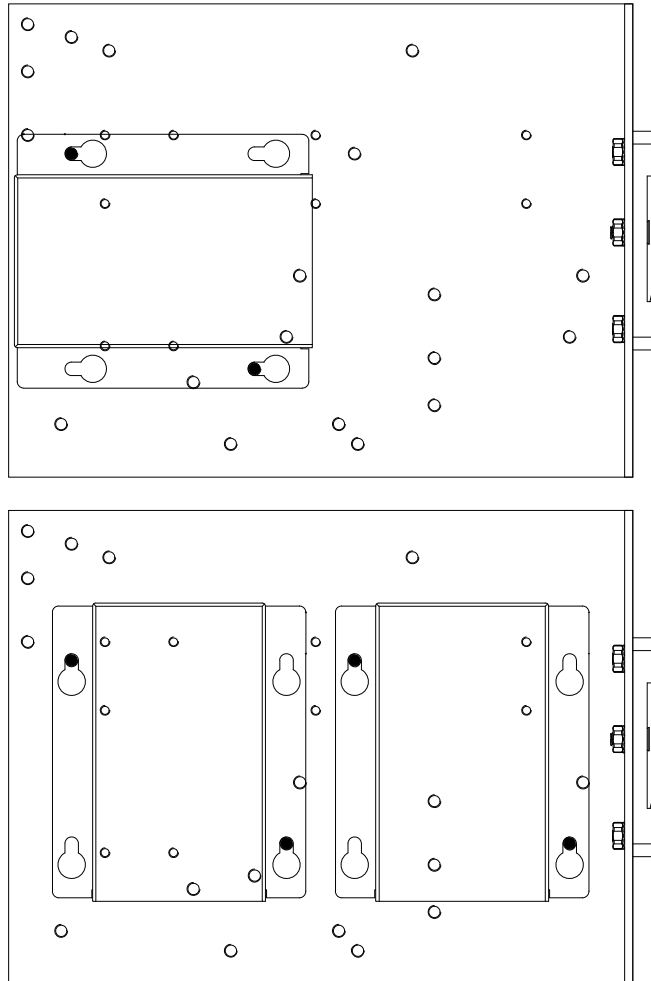


FIGURE 17: SMALL CLAMSHELL MOUNTING

3.8 MEDIUM CLAMSHELL CASE

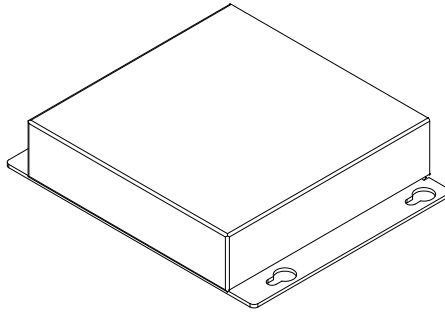


FIGURE 18: MEDIUM CLAMSHELL CASE

Products such as the OSD138 and the like can be mounted directly onto the DIN rail universal adaptor using M4 screws. The DIN rail universal adaptor provides mounting of one unit. Figure 19 shows the method to mount the OSD unit and the screw mounting holes to use.

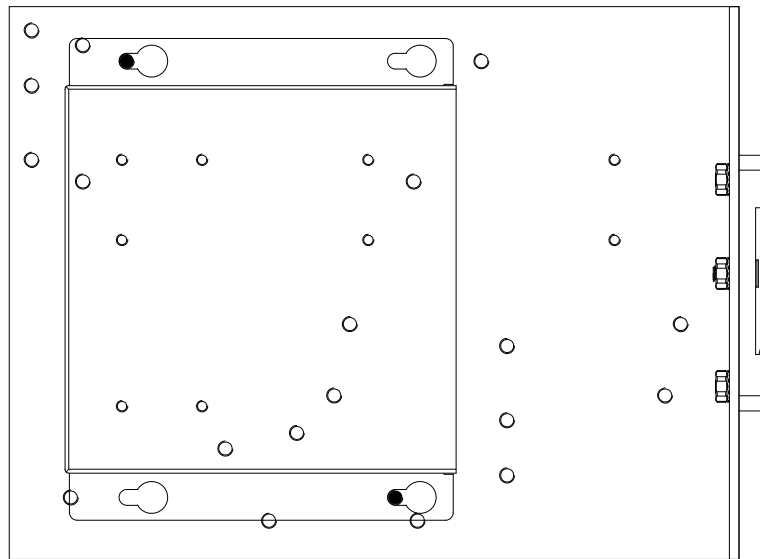


FIGURE 19: MEDIUM CLAMSHELL MOUNTING

3.9 LONG CLAMSHELL CASE

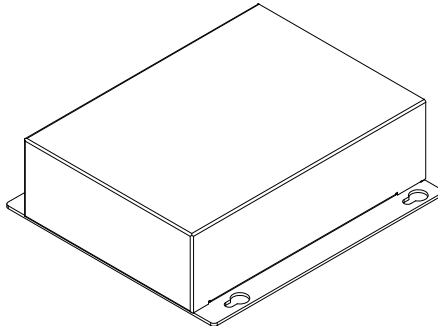


FIGURE 20: LONG CLAMSHELL CASE

Products such as the OSD730 and the like can be mounted directly onto the DIN rail universal adaptor using M4 screws. The DIN rail universal adaptor provides mounting of one unit. Figure 21 shows the method to mount the OSD unit and the screw mounting holes to use.

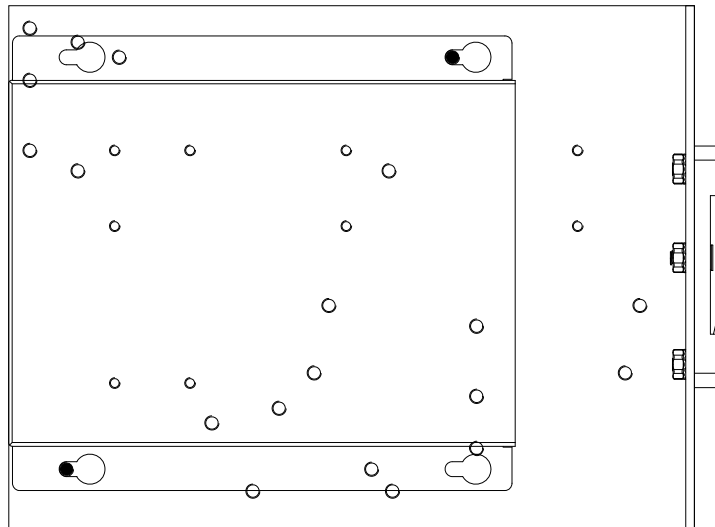


FIGURE 21: LONG CLAMSHELL MOUNTING

4 WARRANTY

OSD warrants that at the time of shipment, its products are free from defects in material and workmanship and conforms to specifications. Our Warranty conditions are outlined below:

4.1 WARRANTY PERIOD

For warranty period and repair service please call your local OSD distributor.

4.2 REPAIRS

Optical Systems Design reserves the right to repair or replace faulty modules/units. Please obtain a "Return Material Authorisation" (RMA) form and number before returning goods. Goods must be returned in adequate packing material to Optical Systems Design, Warriewood, Australia or its nominated authorised representative, for all repairs.

4.2.1 WARRANTY REPAIRS

Return shipments to OSD shall be at customer's expense and freight back to the customer will be at OSD expense.

4.2.2 OUT-OF-WARRANTY REPAIRS

OSD reserves the right to repair or replace any faulty goods. Freight costs and insurance for both journeys are met by the user. All equipment repaired by OSD will have a 3-month warranty from the date of dispatch.


4.2.3 SITE REPAIRS

By agreement site repairs may be undertaken for which out of pocket, hotel and travel expenses will be charged.

4.2.4 EXCLUSIONS

This warranty does not apply to defects caused by unauthorized modifications, misuse, abuse or transport damage to the equipment. All modifications to OSD's standard product will need written authorization and will be charged at normal repair rates. All modifications are to be carried out by OSD Technicians. Warranty is void if unauthorized removal and/or tampering with serial number and/or repair labels is evident.

Optical Systems Design Pty. Ltd.
7/1 Vuko Pl. Warriewood 2102
P.O. Box 891 Mona Vale
N.S.W. Australia 2103
Telephone: +61 2 9913 8540
Facsimile: +61 2 9913 8735
Email: sales@osd.com.au
Web Site: www.osd.com.au

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PTY LTD

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