

# MFL

FAA Qualified and ETL Verified

## High and Medium Intensity Approach Threshold and End Light



Qualified To: **FAA-E-2952 – ALSF (Replacement for FAA-E-2491)**  
**FAA-E-2968 – MALSR**



### Applications

MFL is a multi-function light, which is generally used for approach centreline, crossbars and side rows lighting. It can be used for threshold marking too. MFL uses 105W or 60W lamps in order to satisfy FAA-E-2952 and FAA-E-2968 requirements. It is available in white, red or green colour depending on the lighting to be provided.

### Features

**LIGHT UNIT:** consists of a treated cast aluminium dome and a treated cast aluminium lower cover, fastened to the dome by means of three screws and silicone gasket. The proper mounting of the lower cover is ensured by a pin located in the lower side of the dome. The dome is provided with apertures for beam output. An additional silicone O-ring is outside placed around the dome to avoid dirt deposits between dome and mounting assembly. The finned lower cover is provided with a terminal bush for cable entry and with a valve for water tightness test. Two suitable seats are provided on the dome to make easy the light removal.

**OPTICAL SYSTEM:** consists of optical glass prisms, each mechanically clamped to the light dome by means of a steel retainer with gasket. An additional gasket is placed between each retainer and the relevant prism, to avoid glass-metal direct contact. The prism replacement is quick and easy and doesn't require any sealing.

### How to order

Part Numbers for Ordering:

P/N	Description	FAA Designation
3950-1	ALS White Style A, FAA-E-2952	FA-23000/1
3950-2	ALS Green, Style B, FAA-E-2952	FA-23000/2
3950-3	ALS Red, Style C, FAA-E-2952	FA-23000/3
3950-4	MALS White, Style I, FAA-E-2968	FA 23000/4
3950-5	MALS Green, Style II, FAA-E-2968	FA-23000/5

**PLUG WITH LEADS:** the assembly consists of a terminal bush provided with thread, two single-pole Teflon leads, size 2.5 sq.mm, 0.770 m long, and a FAA L-823 plug, for very quick coupling with the receptacle mounted on the base.

**LAMPS:** 105 W or 60W tungsten-halogen, 6.6 A, 1000 hour rated life, complete with dichroic reflector and cable leads with male faston terminal. The lamps are mounted on a suitable aluminium plate, through supports and relevant little springs for easy and quick re-lamping. The lamp plate is fixed to the lower cover through four vibration-damping blocks. Two tinned bare copper plaits are provided between the lamp plate and the lower cover to improve the heat removal.

**FILTERS:** (when required) dichroic red for runway end lighting and dichroic green for threshold lighting, are mounted in the rear side of the prisms through suitable stainless steel supports.

**LAMP BY-PASS DEVICES:** on request, the fitting can be equipped with fuse cut-outs (option F) mounted on suitable insulating strips fixed to the lower cover.

**NOTES:** To retrofit into existing FAA-E-2491 applications, use Multi # 3950-142 or 3950-132 Load Bearing Ring.

## Accessories

Part Number	Description
3950-131	Installation Parts Kit
3950-133	Load bearing ring – L868 12" Base Stainless Steel
3950-132	Load bearing ring – L868 15" Base SS and LB-4 Base Stainless Steel
3950-143	Load bearing ring --- L868 12 " Base Steel
3950-142	Load bearing ring --- L868 15" Base steel and LB-4 Base Steel
VTA180P120S27.3-01	Transformer for 120 V Primary
VTA180P240S27.3-01	Transformer for 240 V Primary
TA300666-01	Transformer for series circuits FAA L-830 300 W 6.6/6.6 A 60Hz
TA300266-01	Transformer for series circuits FAA L-830 300 W 20/6.6 A 60Hz

## Renewal Parts

Part Number	Description
3950-302	Dome complete with prisms
3950-301	Lower cover (finned) complete with plug with leads
3950-303	Complete lamp supporting plate, 3 lamps 3° divergence
3950-312	Complete lamp supporting plate, 3 lamps 12° divergence for ALS White
3950-117	Vibration-damping block with hardware
3950-115	Dichroic red filter complete with support
3950-116	Dichroic green filter complete with support
3950-114	Glass prism
3950-118	Gasket for prism
3950-119	Nylon gasket for prism
3950-110	Silicone O-ring for light unit (between dome and lower cover) Grease for gaskets, 400 gr
3950-109	Terminal strip with hardware
3950-112	Valve for watertightness test
3950-121	L-823 two-pole plug with leads, 0.770 m long, and with terminal bush
3950-130-1	PACKAGE, Replacement - ALSF <ul style="list-style-type: none"><li>• 3 each #9637-06</li><li>• 1 each #3950-110</li><li>• 6 each 3/8-16 x 1-1/2" Bolt</li><li>• 6 each Nylock Washer</li><li>• Silicone Grease</li><li>• Anti Seize Compound</li></ul>
3950-130-2	PACKAGE, Replacement - MALSR <ul style="list-style-type: none"><li>• 3 each #9637-05</li><li>• 1 each #3950-110</li><li>• 6 each 3/8-16 x 1-1/2" Bolt</li><li>• 6 each Nylock Washer</li><li>• Silicone Grease</li><li>• Anti Seize Compound</li></ul>