

Model No.: **FMR4PLBXLB**
 Description: **Ø30.5 FMR Series Metallic Pilot Light with LED bulb**



Salient Features:

- Compact design
- Flush mounting
- Quick installation
- Safe operation
- Robust design
- Aesthetically elegant
- Available in variety of colors
- IP65 protection
- Can be used for elevator function
- All plastic raw material f1 UV stabilized as per UL746C
- HL3-R26 as per BS EN 45545-2

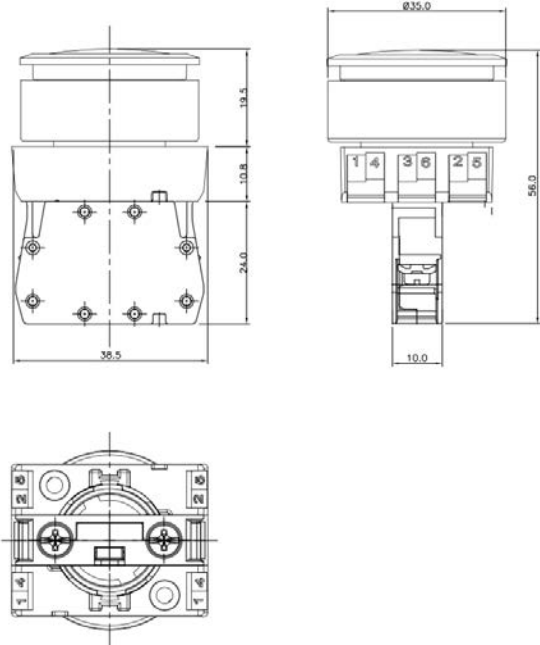
General Characteristics:

It consists of one clip on lamp holder, suitable for Ø30.5 cutout, with Clip on metal bracket (4BRK) & LED Bulb FMRMCB9X 110VDC & Lens assembly FMR4PLLA4L. The pilot light has IP65 as degree of protection as per IEC 60529.

This unit can be used with any panel, ranging from 1mm to 3mm thickness. The pilot light is bayonet locking into the bracket. Two screws are provided with the bracket. After assembly, the lock screws are to be tightened with a torque of 1.2Nm so that they pierce through the paint of the panel. This will ensure good earthing to the unit.

Available types	: FMR4PLBRXLB ZZZ X indicates color color=1-White,2-Black, 3-Green, 4-Red,5-Amber, 6-Blue, 7-Clear 8-Yellow ZZZ indicates rated Voltage (6VAC/DC to 220VDC & 240VAC)
Degree of protection	: IP65 as per IEC 60529
Degree of Pollution	: 3
Applicable standards	: Refer attached Manufacturer Declaration
Product Certification	CE

Mechanical Characteristics:

Function indicator		Front viewing: Marking can be provided on request
Terminal Capacity		: Maximum 2X1.5mm ² or 1X 2.5mm ² : Minimum 1X0.5mm ²
Terminal marking		: X1 X2
Terminal Torque	Nm	: 0.8 Screw head compatible with Posidrive or Phillips screw driver
Contact material		: Brass, Silver plated : Brass terminal, Silver rivet gold plated (Low Voltage application)
Operation		: NA
Operating torque	Nm	: NA
Operating force	N	: NA
Positive operation Conforming to IEC/EN 60947-5-1 Appendix K		: All functions incorporating a NC contact are positive opening operation
Operating travel	mm	: NA
Mechanical life		: NA
Ambient	°C	: -25 to +70
Storage	°C	: -25 to +40
Overall Dimensions with sketch (LXBXH)	mm	
Vibration resistance Conforming to IEC 60068-2-6	Hz	: Frequency 10Hz to 500Hz, Acceleration: 100m/s ² , Amplitude: 0.75mm, Sweep: 1 octave/min
Shock resistance Conforming to IEC 60068-2-27		: Half sine wave, Acceleration: 300m/s ² , Pulse: 11ms, 3 shock per axis, 12 shocks
Viewing Angle	°	: NA
Optical Axial intensity	mcd	: NA
Weight	gms	: 69

Electrical Characteristics of contacts:

Make & Break Capacity		: NA
Rated insulation voltage	V	: 500
Rated thermal current	A	: NA
Low power application		: NA
Short circuit protection		: NA
Dielectric Test	KV	: 2.5
Approvals regarding the part:		:Pending
Approvals regarding the material		
Polymeric parts		: UL-Recognized material
Rated Impulse Withstand		: NA
Polarity protection		: NA
Current Consumption	mA	: <20
Electrical Endurance		: NA

Accessories & codes:

NA

Ordering codes

The ordering code for each product is mentioned in the Catalogue/Data Sheet and not indicated on each product because of the various combinations possible it becomes practically impossible to do so, more over the actuators, lamp unit and contact element, which together make a push button, are sold separately to OEM's as well as dealers. However the primary packing box always mentions the ordering code of the material it holds.

PILOT LIGHT WITH BRACKET & LED BULB

FMR ↓ Flush Mounting Round	4PLB ↓ Metal Clip on Series Pilot Light Bayonet	X ↓ Indicates color 1-White, 2-Black, 3-Green, 4-Red, 5-Amber, 6-Blue, 7-Clear 8-Yellow	LB ↓ LED Bulb	110VDC ↓ Rated Voltage
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PILOT LIGHT WITH BRACKET & WITHOUT LED BULB

FMR ↓ Flush Mounting Round	4PLB ↓ Metal Clip on Series Pilot Light Bayonet	XL ↓ X Indicates color 1-White, 2-Black, 3-Green, 4-Red, 5-Amber, 6-Blue, 7-Clear 8-Yellow L =Led	110VDC ↓ Rated Voltage
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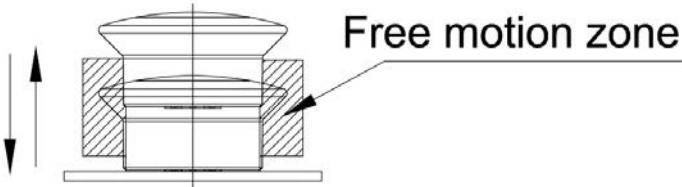
PILOT LIGHT WITHOUT BRACKET, WITHOUT LAMPHOLDER & WITHOUT LED BULB

FMR ↓ Flush Mounting Round	4PL ↓ Metal Clip on Series Pilot Light Bayonet	LA ↓ Lens Assembly	XL ↓ Indicates color 1-White, 2-Black, 3-Green, 4-Red, 5-Amber, 6-Blue, 7-Clear 8-Yellow L =Led
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Note: For Ordering Lamp holders, please refer our DATA SHEET Ø30.5 FMR SERIES METALLIC CLIP ON LAMP HOLDER

Mounting Instructions:

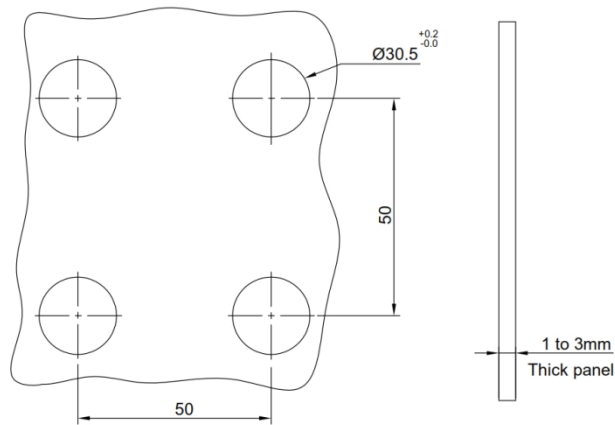
Safety regulations: This unit may be installed & commissioned by personnel who are familiar with current regulation for health & safety at work & accident prevention. Ensure local regulations are met especially those relating to safety. This is for use on flat surface of type 4X, 12 enclosure.



Ensure that this actuator will operate fully after installation. Failure to follow these will result in death or serious injury.

Mounting

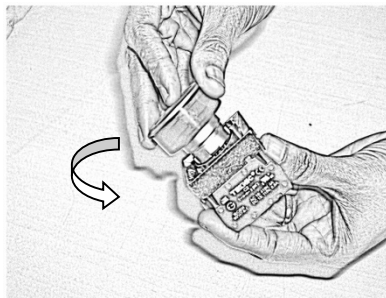
: Fixing Centers: 50mm X 50mm min.
Mounting Panel thickness: 1mm to 3mm



No of elements possible

: NA

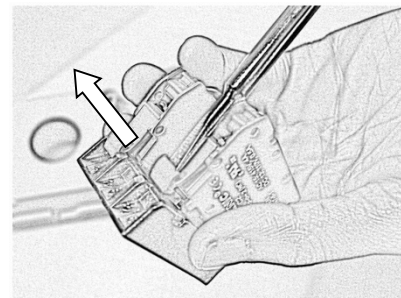
To install:



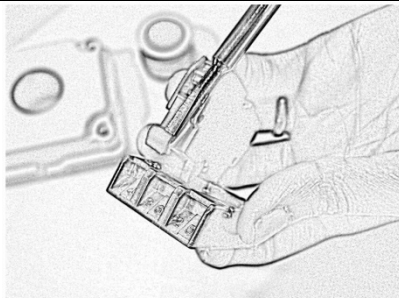
Turn the lens assembly in anticlockwise direction



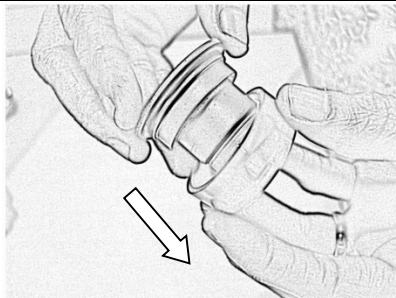
Remove the lens assembly from the bracket



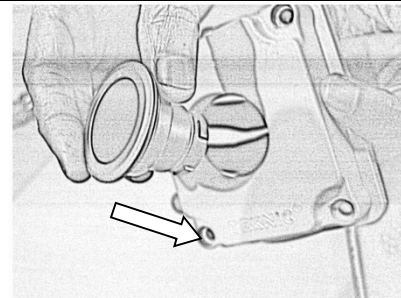
Insert screw driver in the lamp body & twist the screw driver



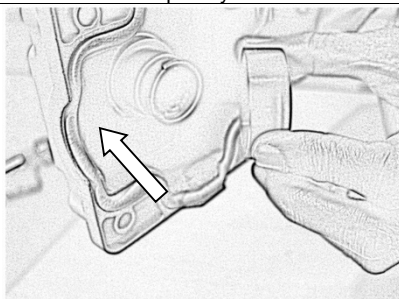
Release the lamp body from the bracket



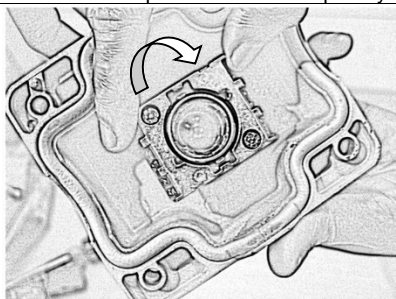
Remove the spacer from the lamp body



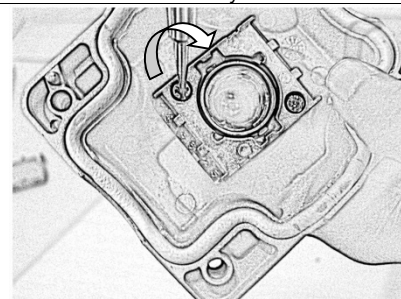
Insert the lens assembly in the Ø30.5 hole



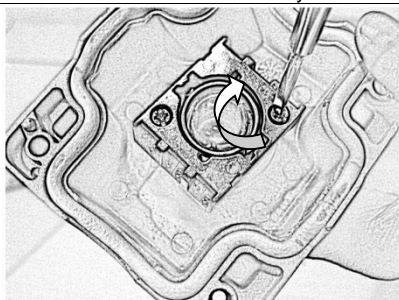
Insert the spacer from the rear side of the panel into the lens assembly



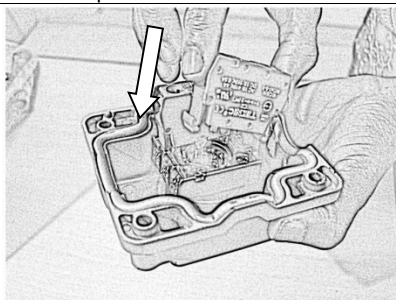
Insert the bracket in the lens assembly from the rear side of panel & turn in clockwise direction



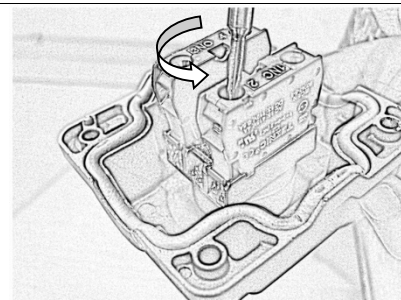
Tighten the lock screw with a torque of 1.2Nm



Tighten both the screws equally

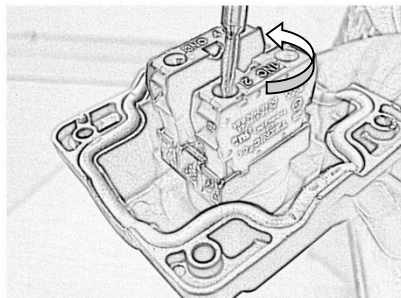


Press fit the lamp body in the bracket

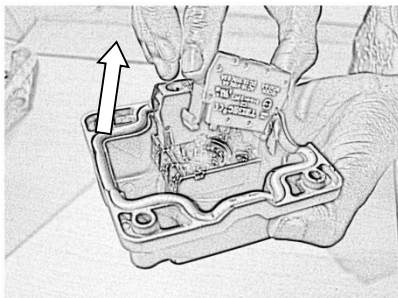


Open the terminal screws by turning in anticlockwise direction for wiring

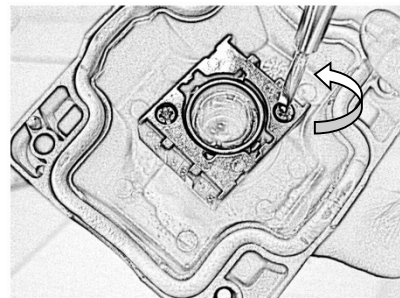
To uninstall:



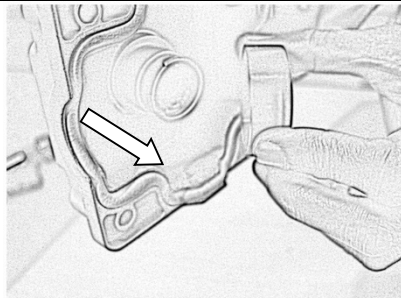
Open the terminal screws by turning in anticlockwise direction & release the wiring



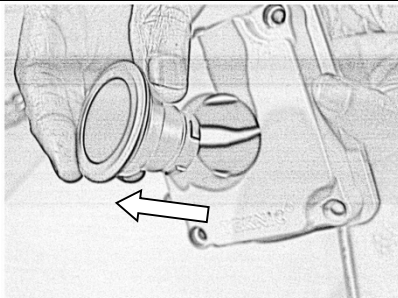
Remove the lamp body by inserting the screw driver & pulling it



Loosen the lock screws in anticlockwise direction



Remove the spacer



Remove the lens assembly

Images are for representation only. Actual product may vary. If any more information is required, kindly contact our Marketing Department at +91-22-42532500 or email at ram.talreja@teknico.co.in

Teknic Electric India Pvt Ltd may incorporate modification or improvements on its products at any time without notice, & therefore, in such events it is possible that the relevant part of this Data Sheet does not apply to your product.

TEKNIC

MANUFACTURER DECLARATION

We,

TEKNIC ELECTRIC (I) PRIVATE LIMITED,65, Marol Co-operative Industrial Estate,
M. Vasanji Road, Andheri (East),
Mumbai 400059, India.

Declare under sole responsibility that the following described products in our delivered version complies with the appropriate standards for Railways applications, based on its design & type as brought into circulation by us. In case of alteration of the product not agreed upon by us, this declaration will lose its validity.

Description of the Electrical Equipment:

Contact Elements	-Ø22.5	C...
Metallic Series Push Button Clip on Non illuminated Flush pushbuttons	-Ø22.5	FMR4PSF...
Metallic Series Push Button Clip on Non illuminated projecting pushbuttons	-Ø22.5	FMR4PSP...
Metallic Series Push Button Clip on Non illuminated Selector Pushbuttons	-Ø22.5	FMR4PSS...
Metallic Series Push Button Clip on illuminated Flush pushbuttons	-Ø22.5	FMR4PSLRF...
Metallic Series Push Button Clip on illuminated Selector Pushbuttons	-Ø22.5	FMR4PSSL...
Metallic Series Pilot Light	-Ø22.5	FMR4PL...
Metallic Series Push Button Clip on Non illuminated Key Selector Pushbuttons	-Ø22.5	FMR4PSK...
Metallic Series Push Button Clip on Non illuminated Mushroom Pushbuttons	-Ø22.5	FMR4PSM...
Metallic Series Push Button Clip on Non illuminated Selector Round knob Pushbuttons	-Ø22.5	FMR4PSSPB...

Applicable Standards:

BS EN 45545-2: 2013+A1: 2015

Railway application-Fire protection on Railway vehicles Part 2: Requirements for fire behavior of materials & components (HL3 – R26)

ASTM D635 & IEC60695-11-10
UL 746C & UL94

Rate of burning (V0 at 0.8mm, f1 UV stabilised)

IEC/EN 60947-1: IEC 60947-1:2007
+AMD1:2010+AMD2:2014

Low-voltage switchgear and controlgear - Part 1:
General rules

IEC/EN 60947-5-1: 2016

Low-voltage switchgear and controlgear - Part 5-1:
Control circuit devices and switching elements
- Electromechanical control circuit devices

2011/65/EU

ROHS 2 EU Directive


02/04/2019
Assistant Manager
Quality System & Standards

*Refer Annexures for certifications

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