DATA SHEET Ø30.5 METALLIC FLUSH MOUNTING SERIES NON ILLUMINATED 3 POSITION STAYPUT, KEY REMOVABLE IN ALL POSITIONS

Model No.:
FMR4AK2-3PA+C1+C2
Description: $\quad \varnothing 30.5$ Metallic flush mounting series non illuminated 3 position Stayput, Key Removable in all positions


## Salient Features:

- Quick installation
- Safe operation
- Robust design
- Aesthetically elegant
- Double pole double throw (DPDT) function
- Used for actuation authorization
- Compact design
- Flush mounting
- 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 is metallic stayput FMR series Key Selector for use in a panel cutout of $\varnothing 30.5 \mathrm{~mm}$ \& thickness 1 to 3 mm . It is a 3 position switch with key removable in all positions. It is used in applications where proper authorization is needed to actuate controls. The actuator has IP65 as degree of protection as per IEC 60529. The actuator is bayonet locking into the Clip on bracket (4BRK). Two screws are provided with the bracket. After assembly, the lock screws are to be tightened with a torque of 1.2 Nm so that they pierce through the paint of the panel. This will ensure good earthing to the unit.

It is fitted with contact elements of FMR C... series. Refer Datasheet for FMR C1 element \& Datasheet for FMR C2 element. A minimum of one contact element \& a maximum of six clip on contact elements can be stacked on the bracket of this actuator by a simple push action.

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| Available types |
| :--- |
| Degree of protection as per IEC 60529 |
| Degree of Pollution |
| Applicable standards |
|  |
| Product Certification |

: Stayput \& Spring return options available in 3 position \& 2 position versions. Codes available on request.

| $:$ IP65 |  |
| :--- | :--- |
| $: 3$ | Railway application-Fire protection on Railway <br> vehicles Part 2: Requirements for fire behavior of <br> materials \& components (HL3 - R26) |
| BS EN 45545-2: 2013+A1: 2015 | Rate of burning (V0 at 0.8mm, f1 UV stabilised) |
| ASTM D635 \& IEC60695-11-10 <br> UL 746C \& UL94 |  |
| IEC/EN 60947-1: IEC 60947-1:2007 <br> +AMD1:2010+AMD2:2014 | Low-voltage switchgear and controlgear - Part 1: <br> General rules |
| 2011/65/EU | Low-voltage switchgear and controlgear - Part 5- <br> 1: Control circuit devices and switching elements |
| - Electromechanical control circuit devices |  |

## Mechanical Characteristics:

| Function indicator |  | Front viewing: <br> White marking provided on Key selector knob |
| :---: | :---: | :---: |
| Terminal Capacity |  | : Maximum 2X1.5mm² or 1X $2.5 \mathrm{~mm}^{2}$ : Minimum 1X0.5mm² |
| Terminal marking |  | : 1NC 2 \& 3NO 4 |
| Terminal Torque | Nm | : 0.8 Screw head compatible with Posidrive or Phillips screw driver |
| Contact material |  | : Brass, Silver plated <br> : Brass terminal, Silver rivet gold plated (Low Voltage application) |
| Operation |  | : Slow break (NO/NC) |
| Operating torque | Nm | : 0.3 |
| Operating force | N | : NA |
| Positive operation Contorming to IEC/EN 60947-5-1 |  | : All functions incorporating a NC contact are positive opening operation |
| Operating travel | mm | : NA |

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Mechanical life
Ambient
Storage
Overall Dimensions with sketch (LXBXH)

| Vibration resistance | Conforming to IEC 60068-2-6 |
| :--- | :--- |
| Shock resistance | Conforming to IEC 60068-2-27 |
| Viewing Angle |  |
| Optical Axial intensity |  |
| Weight |  |



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Electrical Characteristics of contacts:


## Accessories \& codes:

## NA

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## 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.

For actuator (with Bracket):


For actuator (without Bracket):


For Pushbutton


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## 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 $4 \mathrm{X}, 12$ enclosure.


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


# TEKNDC 

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## TEKNDC

## To uninstall:



## TERSNDC

## 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 | $-\varnothing 22.5$ | C... |
| :--- | :--- | :--- |
| Metallic Series Push Button Clip on Non illuminated <br> Flush pushbuttons | $-\boxed{22.5}$ | FMR4PSF... |
| Metallic Series Push Button Clip on Non illuminated <br> projecting pushbuttons | $-\boxed{22.5}$ | FMR4PSP... |
| Metallic Series Push Button Clip on Non illuminated <br> Selector Pushbuttons | $-\boxed{22.5}$ | FMR4PSS... |
| Metallic Series Push Button Clip on illuminated Flush <br> pushbuttons | $-\varnothing 22.5$ | FMR4PSLRF... |
| Metallic Series Push Button Clip on illuminated <br> Selector Pushbuttons | $-\varnothing 22.5$ | FMR4PSSL... |
| Metallic Series Pilot Light | $-\varnothing 22.5$ | FMR4PL... |
| Metallic Series Push Button Clip on Non illuminated <br> Key Selector Pushbuttons | $-\varnothing 22.5$ | FMR4PSK... |
| Metallic Series Push Button Clip on Non illuminated <br> Mushroom Pushbuttons | $-\varnothing 22.5$ | FMR4PSM... |
| Metallic Series Push Button Clip on Non illuminated <br> Selector Round knob Pushbuttons | $-\varnothing 22.5$ | FMR4PSSPB... |

## Applicable Standards:

BS EN 45545-2: 2013+A1: 2015

ASTM D635 \& IEC60695-11-10
UL 746C \& UL94
IEC/EN 60947-1: IEC 60947-1:2007
+AMD1:2010+AMD2:2014
IEC/EN 60947-5-1: 2016

2011/65/EU


02/04/2019
Assistant Manager
Quality System \& Standards

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

Rate of burning (V0 at $0.8 \mathrm{~mm}, \mathrm{f} 1 \mathrm{UV}$ stabilised)

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

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

- Electromechanical control circuit devices

ROHS 2 EU Directive

