

# Dual-stage locking unit

## FB-2VM-MA2xxx

Item 106834



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Partner for Future Technology

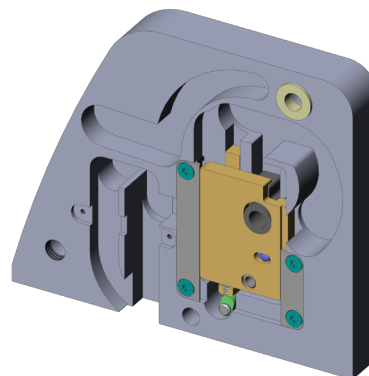
- For 1-stage or 2-stage contacting without self-opening unit
- Mechanical limit of contacting stage
- Quick, easy installation by replacing the rear bearing block
- Adjustable screw to select ICT or ICT/FCT operating mode.
- Optionally available proximity switch to detect FCT position

### Application

Using the mechanical dual-stage locking units (FB-2VM) for MA xxxxx test fixtures, both single-stage (ICT) and dual-stage contacting (ICT/FCT combined) can be reliably performed. When using the version without electric motor, tests are performed without a self-opening unit, whereas the version with an electric motor performs tests with a self-opening unit. Installation is quick and easy; only the rear bearing block on the left side has to be replaced. Before operation of upgraded MA xxxxx test fixtures begins, the adjusting screw on the outside of the bearing block should be adjusted to select the operating mode: either ICT or ICT/FCT. Both contacting stages have mechanical limits and are not statically locked.

### Delivery

The functional unit is supplied pre-assembled, without inductive proximity switch.



#### Note:

Before operation of upgraded MA xxxxx test fixtures begins, the adjusting screw on the outside of the bearing block should be adjusted to select the operating mode - either ICT, to perform single-stage contacting, or ICT/FCT, to perform dual-stage contacting.

#### Note:

Operating voltage electric motor in the range of 5 V to max. 36 V DC.

### General data

|                    |                                   |
|--------------------|-----------------------------------|
| Product group:     | Functional units                  |
| Series:            | FB-MAxxxx                         |
| Type:              | Dual-stage limit                  |
| Version:           | Mechanical without electric motor |
| Accessory type:    | Additional function               |
| Scope of delivery: | Pre-assembled                     |
| Material:          | 3.3547, hard-coated               |
| Width:             | 15 mm [.59 in]                    |
| Height:            | 101 mm [3.97 in]                  |
| Weight:            | 0.44 kg [.97 lbs]                 |
| Min. temperature:  | 10 °C [50 °F]                     |
| Max. temperature:  | 60 °C [140 °F]                    |
| RoHS-compliant:    | Yes                               |

### Compatible with

|                            |         |
|----------------------------|---------|
| Manual test fixtures (MA): | MA 2xxx |
| For dual-stage contacting: | Yes     |

### Technical data

|                           |                                          |
|---------------------------|------------------------------------------|
| Installation:             | Thread M5                                |
| Length:                   | 118 mm [4.64 in]                         |
| Outer dimensionS (WxDxH): | 15 x 118 x 101 mm [.59 x 4.64 x 3.97 in] |

FUNCTIONAL UNIT

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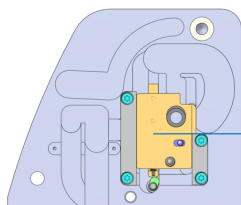
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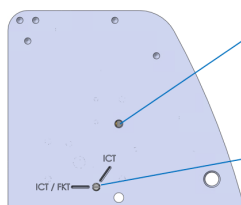
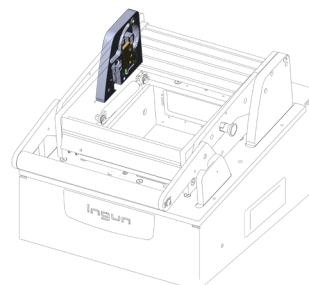
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Mechanical 2-stage locking unit  
without electric motor, for tests  
without self-opening unit

Locking mechanism



Position for optionally available  
inductive proximity switch

Adjusting screw to select operating  
mode:

- ICT: 1-stage contacting
- ICT/FCT: 2-stage contacting

### Accessories

| Part no.    | Designation                 | Version                                                                                                 |
|-------------|-----------------------------|---------------------------------------------------------------------------------------------------------|
| Accessories |                             |                                                                                                         |
| 112801      | FB-2VM-MOT-MAxxxx           | Upgrade kit: electric motor without electronics                                                         |
| 111185      | FB-STE-2VM-MAxxxx           | Upgrade kit: electronics                                                                                |
| 111136      | ENS-I-M04-S-0,6-10-30V-K2,0 | Inductive proximity switch, PNP closer; switching distance $\leq 0.6$ mm; D = M4; 10-30 VDC; cable ~2 m |

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Prices and delivery times on request.  
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Learn more about  
MA functional units

