



SAFE MODULE K60F, WITH TWO SECURE INPUTS 2FE AND TWO STANDARD OUTPUTS 2A AND AUX.  
VOLTAGE SUPPLY U AUX 24V DC

### General technical data:

|                                                                                     |    |                                                                                                                                     |
|-------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------|
| Design of the product                                                               |    | Safe compact module K60F, 2F-DI/2DO, Uaux                                                                                           |
| Type                                                                                |    | 2 inputs, safe, 2 outputs, standard with Uaux                                                                                       |
| I/O configuration                                                                   |    | 7                                                                                                                                   |
| ID/ID2 code                                                                         |    | B/F                                                                                                                                 |
| Protocol is supported AS-interface protocol                                         |    | Yes                                                                                                                                 |
| Number I/O sockets                                                                  |    | 4                                                                                                                                   |
| Type of electrical connection of the inputs and outputs                             |    | M12                                                                                                                                 |
| operating voltage according to AS-Interface specification                           | V  | 26.5 ... 31.5                                                                                                                       |
| AS interface total current input max                                                | mA | 270                                                                                                                                 |
| Ground terminal                                                                     |    | PIN 5 of each M12 socket is connected to the grounding wrist strap in the mounting plate using a pin (outputs only, socket 5 and 6) |
| Addressing                                                                          |    | front addressing socket; the module retains the last address after the 15th addressing procedure                                    |
| Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 |    | A                                                                                                                                   |
| Equipment marking acc. to DIN EN 61346-2                                            |    | A                                                                                                                                   |

### Inputs:

|                                         |  |                                                                                                                            |
|-----------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------|
| Number of digital inputs safety-related |  | 2                                                                                                                          |
| Inputs                                  |  | <ul style="list-style-type: none"> <li>• sensors</li> <li>• switching level High</li> <li>• switching level Low</li> </ul> |
|                                         |  | mechanical switching contact<br>contact closed<br>contact open                                                             |

|                                                       |    |                     |
|-------------------------------------------------------|----|---------------------|
| Input current at digital input for signal <1> minimum | mA | 5                   |
| Design of the pin assignment of the inputs            |    | special assignement |

#### Outputs:

|                                                                                                                                                              |   |                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------|
| Number of digital outputs                                                                                                                                    |   | 2                                        |
| Type of voltage of output voltages                                                                                                                           |   | DC                                       |
| Outputs external power supply 24 V DC                                                                                                                        |   | via AUX POWER                            |
| Output current at digital output for signal <1> Rated value                                                                                                  | A | 2                                        |
| Type of switching output                                                                                                                                     |   | solid state                              |
| Design of the pin assignment of the outputs                                                                                                                  |   | standard assignement                     |
| Property of the output Short-circuit proof                                                                                                                   |   | Yes                                      |
| Outputs <ul style="list-style-type: none"> <li>• short-circuit protection</li> <li>• induction protection</li> <li>• watchdog</li> </ul>                     |   | built-in<br>built-in<br>built-in         |
| Status display <ul style="list-style-type: none"> <li>• display of I/Os</li> <li>• display of Uaux</li> <li>• display of AS-Interface/diagnostics</li> </ul> |   | yellow LED<br>green LED<br>green/red LED |

#### Ambient conditions:

|                                                                                                                    |          |                            |
|--------------------------------------------------------------------------------------------------------------------|----------|----------------------------|
| Ambient temperature <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul> | °C<br>°C | -25 ... +70<br>-40 ... +85 |
| Protection class IP                                                                                                |          | IP67                       |

#### Mechanical data:

|               |    |                                                                                  |
|---------------|----|----------------------------------------------------------------------------------|
| Width         | mm | 60                                                                               |
| Height        | mm | 152                                                                              |
| Depth         | mm | 29                                                                               |
| Mounting type |    | standard rail mounting/wall mounting using mounting plate for K60 compact module |

#### Certificates/ approvals:

|                          |  |         |
|--------------------------|--|---------|
| AS-Interface certificate |  | yes     |
| Approvals                |  | UL, CSA |

| General Product Approval | Functional Safety/Safety of Machinery | Declaration of Conformity | Shipping Approval |
|--------------------------|---------------------------------------|---------------------------|-------------------|
|--------------------------|---------------------------------------|---------------------------|-------------------|



CSA



UL



[Type Examination Certificate](#)



EG-Konf.



ABS

| Shipping Approval | other |
|-------------------|-------|
|-------------------|-------|



LRS



PRS



RINA



RMRS

[Confirmation](#)

| other |
|-------|
|-------|

[Environmental Confirmations](#)

## Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

<http://www.siemens.com/industrymall>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK14051BQ000AA3>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3RK14051BQ000AA3>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK14051BQ000AA3&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK14051BQ000AA3&lang=en)

last modified:

05.05.2015