

MASI20 I/O MODULE K3

4 digital inputs, 4 digital, passive safety outputs

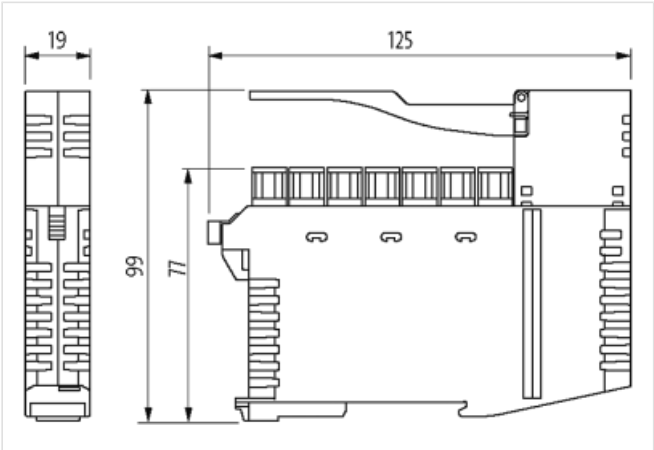
Digital inputs/outputs  
DI4 - 0.15 A DO4 - 2 A (AB) (K3)  
Safe outputs (Safety)  
passive safety  
Output groups up to PLd (EN ISO 13849-1) can be switched off via safety relays  
AB-Slave  
Protection IP20  
Current manuals can be downloaded at: [www.murrelektronik.com](http://www.murrelektronik.com)  
24 V DC (20...30 V DC) EN 61131-2 by additional supply, safely separated from input supply

Link to Product

Illustration



Product may differ from Image



| Commercial data                    |               |
|------------------------------------|---------------|
| ECLASS-6.0                         | 27242604      |
| ECLASS-6.1                         | 27242604      |
| ECLASS-7.0                         | 27242604      |
| ECLASS-8.0                         | 27242604      |
| ECLASS-9.0                         | 27242604      |
| ECLASS-10.1                        | 27242604      |
| ECLASS-11.1                        | 27242604      |
| ECLASS-12.0                        | 27242604      |
| ETIM-5.0                           | EC001599      |
| customs tariff number              | 85176200      |
| GTIN                               | 4048879705288 |
| Packaging unit                     | 1             |
| Electrical data   Supply           |               |
| Operating voltage external DC min. | 12 V          |
| Operating voltage external DC max. | 30 V          |

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Bus voltage AS-Interface DC min.   | 26,5 V                                         |
| Bus voltage AS-Interface DC max.   | 31,6 V                                         |
| Current consumption AS-i port max. | 190 mA                                         |
| Total current max.                 | 4 A                                            |
| module supply                      | Via system connection or by additional feed-in |

**Electrical data | Input**

|                                |                                                |
|--------------------------------|------------------------------------------------|
| Overload resistant             | yes                                            |
| Short-circuit protected        | yes                                            |
| Type input                     | PNP, for 3-wire sensors or mechanical switches |
| Input current max.             | 5,6 mA                                         |
| Current carrying capacity max. | 0,15 A                                         |

**Electrical data | Output**

|                                          |       |
|------------------------------------------|-------|
| Switch off time in case of short circuit | 20 ms |
| Overload resistant                       | yes   |
| Short-circuit protected                  | yes   |
| Output current per pin max.              | 2 A   |

**Industrial communication | Bus data**

|                      |                             |
|----------------------|-----------------------------|
| Address setting type | Addressing socket, Master   |
| Slave address range  | (0), 1 A...31 A, 1 B...31 B |

**Industrial communication | AS-Interface**

|                     |         |
|---------------------|---------|
| Profile (IO.ID.ID2) | S-7.A.7 |
|---------------------|---------|

**Diagnostics**

|                    |                                  |
|--------------------|----------------------------------|
| Diagnostic         | No voltage                       |
| Diagnostic via LED | per module                       |
| LED display        | Ethernet connection/data traffic |

**Device protection | Electrical**

|                                     |      |
|-------------------------------------|------|
| Degree of protection (EN IEC 60529) | IP20 |
|-------------------------------------|------|

**Mechanical data | Mounting data**

|                            |                           |
|----------------------------|---------------------------|
| Mounting method            | geschnappt                |
| Suitable for mounting type | mounting rail, (EN 60715) |
| Height                     | 125 mm                    |
| Width                      | 19 mm                     |
| Depth                      | 99 mm                     |

**Environmental characteristics | Climatic**

|                            |        |
|----------------------------|--------|
| Operating temperature min. | -25 °C |
| Operating temperature max. | 70 °C  |
| Derating from              | 60 °C  |
| Storage temperature min.   | -25 °C |
| Storage temperature max.   | 85 °C  |

**Connection type 3**

|                          |                           |
|--------------------------|---------------------------|
| Connection type 1        | Asi Bus                   |
| Connection type 2        | I / O                     |
| Connection type 3        | Power                     |
| Connection               | Spring clamp terminals FK |
| Family construction form | terminal                  |
| Gender                   | female                    |
| Color contact carrier    | yellow                    |
| No. of poles             | 4                         |
| PIN 25                   | AS-i +                    |
| PIN 26                   | AS-i +                    |
| PIN 27                   | AS-i -                    |

|                          |                           |
|--------------------------|---------------------------|
| PIN 28                   | AS-i -                    |
| Connection               | Spring clamp terminals FK |
| Family construction form | terminal                  |
| Gender                   | female                    |
| Color contact carrier    | black                     |
| No. of poles             | 20                        |
| PIN 1                    | I 1                       |
| PIN 2                    | I 2                       |
| PIN 3                    | I 3                       |
| PIN 4                    | I 4                       |
| PIN 5                    | I -                       |
| PIN 6                    | I -                       |
| PIN 7                    | I -                       |
| PIN 8                    | I -                       |
| PIN 9                    | I +                       |
| PIN 10                   | I +                       |
| PIN 11                   | I +                       |
| PIN 12                   | I +                       |
| PIN 13                   | O 1                       |
| PIN 14                   | O 2                       |
| PIN 15                   | O 3                       |
| PIN 16                   | O 4                       |
| PIN 17                   | O -                       |
| PIN 18                   | O -                       |
| PIN 19                   | O -                       |
| PIN 20                   | O -                       |
| Connection               | Spring clamp terminals FK |
| Family construction form | terminal                  |
| Gender                   | female                    |
| Color contact carrier    | gray                      |
| No. of poles             | 4                         |
| PIN 21                   | AUX +                     |
| PIN 22                   | AUX +                     |
| PIN 23                   | AUX -                     |
| PIN 24                   | AUX -                     |