

MA5I20 I/O MODULE RELAY

4 digital inputs, 4 digital relay outputs

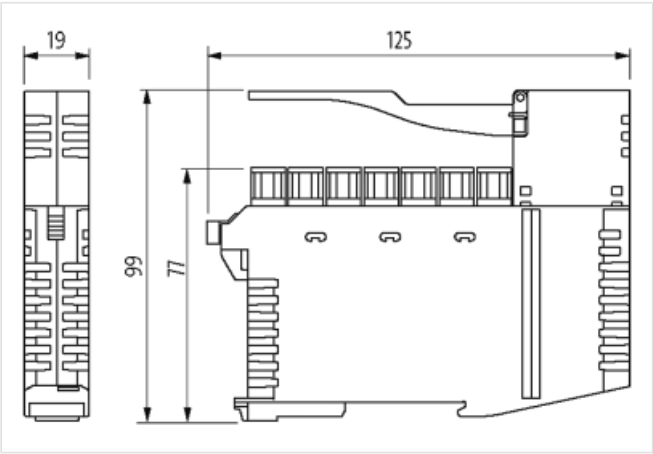
Digital inputs/relay outputs  
DI4 - 0.15 A DO4R - 2 A  
Standard-Slave  
Protection IP20  
Current manuals can be downloaded at: [www.murrelektronik.com](http://www.murrelektronik.com)

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                               | 4048879705271                                  |
| 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. | 230 mA                                         |
| Total current max.                 | 8 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                 |                                                |
| Output voltage AC                        | 250 V                                          |
| Output voltage DC                        | 30 V                                           |
| Output current per pin max.              | 2 A                                            |
| Industrial communication   Bus data      |                                                |
| Address setting type                     | Addressing socket, Master                      |
| Slave address range                      | (0), 1 ...                                     |
| Industrial communication   AS-Interface  |                                                |
| Profile (IO.ID.ID2)                      | S-7.0.E                                        |
| 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                                          |
| Storage temperature min.                 | -25 °C                                         |
| Storage temperature max.                 | 85 °C                                          |
| Connection type 2                        |                                                |
| Connection type 1                        | Asi Bus                                        |
| Connection type 2                        | I / O                                          |
| 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                             | 24                                             |
| 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 15 | O 13 |
| PIN 16 | O 14 |
| PIN 17 | O 23 |
| PIN 18 | O 24 |
| PIN 19 | O 33 |
| PIN 20 | O 34 |
| PIN 21 | O 43 |
| PIN 22 | O 44 |