



| Digital inputs                                 |        |
|------------------------------------------------|--------|
| Number of digital inputs                       | 8      |
| Number of NAMUR inputs                         | 8      |
| Input voltage                                  |        |
| • Type of input voltage                        | DC     |
| Input delay (for rated value of input voltage) |        |
| for standard inputs                            |        |
| — at "0" to "1", min.                          | 2.8 ms |
| — at "0" to "1", max.                          | 3.5 ms |
| — at "1" to "0", min.                          | 2.8 ms |
| — at "1" to "0", max.                          | 3.5 ms |
| Cable length                                   |        |
| • shielded, max.                               | 500 m  |
| Encoder                                        |        |
| Number of connectable encoders, max.           | 8      |
| Connectable encoders                           |        |
| • NAMUR encoder                                | Yes    |
| NAMUR encoder                                  |        |

- Input current for signal "0", max. 1.2 mA
- Input current for signal "1", min. 2.1 mA

#### Interrupts/diagnostics/status information

|                                          |                                                                                                  |
|------------------------------------------|--------------------------------------------------------------------------------------------------|
| Diagnostic functions                     | Yes                                                                                              |
| <b>Alarms</b>                            |                                                                                                  |
| • Diagnostic alarm                       | Yes; Parameterizable                                                                             |
| • Hardware interrupt                     | No                                                                                               |
| <b>Diagnostic messages</b>               |                                                                                                  |
| • Diagnostic information readable        | Yes                                                                                              |
| • Short-circuit                          | Yes; R load < 150 ohms with NAMUR sensor/sensor and NAMUR changeover contact/sensor to DIN 19234 |
| <b>Diagnostics indication LED</b>        |                                                                                                  |
| • Group error SF (red)                   | Yes                                                                                              |
| • Status indicator digital input (green) | Yes                                                                                              |

#### Integrated Functions

|                            |                                     |
|----------------------------|-------------------------------------|
| Frequency measurement      | Yes; (Gate time) 50 ms; 200 ms; 1 s |
| Number of frequency meters | 2                                   |

#### Counter

|                          |                                                                                                                      |
|--------------------------|----------------------------------------------------------------------------------------------------------------------|
| Number of counter inputs | 2; normal and periodic count function                                                                                |
| Input frequency, max.    | 5 kHz; with a cable length of 20 m: 5 kHz; with a cable length of 100 m: 1 kHz; with a cable length of 200 m: 500 Hz |

#### Potential separation

|                                            |     |
|--------------------------------------------|-----|
| <b>Potential separation digital inputs</b> |     |
| • between the channels                     | No  |
| • between the channels and backplane bus   | Yes |

#### Permissible potential difference

|                            |                 |
|----------------------------|-----------------|
| between different circuits | 60 V DC/30 V AC |
|----------------------------|-----------------|

#### Standards, approvals, certificates

|                                                 |                                                    |
|-------------------------------------------------|----------------------------------------------------|
| CE mark                                         | Yes                                                |
| <b>Use in hazardous areas</b>                   |                                                    |
| • Type of protection acc. to EN 50020 (CENELEC) | II2 G (1) GD Ex ib[ia] IIC T4 and I M2 Ex ib[ia] I |
| • Type of protection acc. to KEMA               | 04 ATEX 1248                                       |

#### Dimensions

|        |          |
|--------|----------|
| Width  | 30 mm    |
| Height | 129 mm   |
| Depth  | 136.5 mm |

#### Weights

|                 |       |
|-----------------|-------|
| Weight, approx. | 255 g |
|-----------------|-------|

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