

SIMATIC S7, Digital input SM 326, 8 DI; 24 V DC, NAMUR, fail-safe NAMUR input for SIMATIC S7 F-systems, up to Category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849), 1x 40-pole



| Supply voltage | |
|--|----------|
| Reverse polarity protection | Yes |
| Input current | |
| from load voltage L+ (without load), max. | 160 mA |
| from backplane bus 5 V DC, max. | 90 mA |
| Encoder supply | |
| Number of outputs | 8 |
| Type of output voltage | 8.2 V DC |
| Power loss | |
| Power loss, typ. | 4.5 W |
| Digital inputs | |
| Number of digital inputs | 8 |
| Number of simultaneously controllable inputs | |
| all mounting positions | |
| — up to 40 °C, max. | 8 |
| — up to 60 °C, max. | 8 |
| Input voltage | |

| | |
|--|---|
| • Type of input voltage | DC |
| Input current | |
| • for signal "0", max. (permissible quiescent current) | 0.35 to 1.2 mA |
| • for signal "1", typ. | 2.1 to 7 mA |
| Input delay (for rated value of input voltage) | |
| for NAMUR inputs | |
| — at "0" to "1", max. | 1.2 to 3 ms |
| — at "1" to "0", max. | 1.2 to 3 ms |
| Cable length | |
| • shielded, max. | 200 m |
| • unshielded, max. | 100 m |
| Interrupts/diagnostics/status information | |
| Alarms | |
| • Diagnostic alarm | Yes; Parameterizable |
| Diagnostics indication LED | |
| • Fail-safe operation | Yes |
| • Group error SF (red) | Yes |
| Ex(i) characteristics | |
| Module for Ex(i) protection | Yes |
| Max. values of input circuits for gas group IIC (per channel) | |
| • Co (permissible external capacity), max. | 3 µF |
| • Io (short-circuit current), max. | 13.9 mA |
| • Lo (permissible external inductivity), max. | 80 mH |
| • Po (power of load), max. | 33.1 mW |
| • Uo (output no-load voltage), max. | 10 V |
| • Um (fault voltage), max. | 60 V DC/30 V AC |
| • Ta (permissible ambient temperature), max. | 60 °C |
| Potential separation | |
| Potential separation digital inputs | |
| • between the channels | Yes |
| • between the channels and backplane bus | Yes |
| • between the channels and the power supply of the electronics | Yes |
| Standards, approvals, certificates | |
| Highest safety class achievable in safety mode | |
| • acc. to EN 954 | Cat. 4 |
| • Performance level according to ISO 13849-1 | PLe |
| • SIL acc. to IEC 61508 | SIL 2 (single-channel), SIL 3 (two-channel) |
| Use in hazardous areas | |

• Test number KEMA

99 ATEX 2671 X

Connection method

required front connector

1x 40-pin

Dimensions

Width

80 mm

Height

125 mm

Depth

120 mm

Weights

Weight, approx.

482 g

last modified:

10/09/2020