

Data sheet SM 021 (021-1BB00)

Technical data

| Type SM 021 Modulo ID 0001 9F82 General information . Note - Features 2 inputs Current consumption/power loss . Current consumption from backplane bus 65 mA Power loss 0.5 W Technical data digital inputs Number of inputs 2 Cable length, shielded 1000 m Cable length, unshielded 600 m Cable length uns | Order no. | 021-1BB00 |
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| Input voltage for signal "10" DC 05 V Input voltage for signal "1" DC 1528.8 V Input voltage hysteresis - Frequency range - Input resistance - Input current for signal "1" 3 mA Connection of Two-Wire-BEROs possible yes Max. permissible BERO quiescent current 0.5 mA Input delay of "0" to "1" 3 ms Input delay of "1" to "0" 3 ms Number of simultaneously utilizable inputs horizontal configuration Number of simultaneously utilizable inputs vertical configuration Input data size 2 Bit Status information, alarms, diagnostics Status display green LED per channel Interrupts no Diagnostic interrupt no Diagnostic interrupt no Diagnostics information read-out mone Module state green LED | | DC 20.4 28.8 V |
| Input voltage for signal "1" DC 1528.8 V Input voltage hysteresis - Frequency range - Input resistance - Input current for signal "1" 3 mA Connection of Two-Wire-BEROs possible yes Max. permissible BERO quiescent current 0.5 mA Input delay of "0" to "1" 3 ms Input delay of "0" to "1" 3 ms Input delay of "1" to "0" 3 ms Number of simultaneously utilizable inputs horizontal configuration Number of simultaneously utilizable inputs vertical configuration 2 Input characteristic curve IEC 61131-2, type 1 Initial data size 2 Bit Status information, alarms, diagnostics Status display green LED per channel Interrupts no Process alarm no Diagnostic interrupt no Diagnostic interrupt no Diagnostic functions no Diagnostics information read-out none Module state green LED | | |
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| Status information, alarms, diagnostics Status display green LED per channel Interrupts no Process alarm no Diagnostic interrupt no Diagnostic functions no Diagnostics information read-out none Module state green LED | Input characteristic curve | IEC 61131-2, type 1 |
| Status display green LED per channel Interrupts no Process alarm no Diagnostic interrupt no Diagnostic functions no Diagnostics information read-out none Module state green LED | Initial data size | 2 Bit |
| Status display green LED per channel Interrupts no Process alarm no Diagnostic interrupt no Diagnostic functions no Diagnostics information read-out none Module state green LED | Status information, alarms, diagnostics | |
| Interrupts no Process alarm no Diagnostic interrupt no Diagnostic functions no Diagnostics information read-out none Module state green LED | | green LED per channel |
| Process alarm no Diagnostic interrupt no Diagnostic functions no Diagnostics information read-out none Module state green LED | | |
| Diagnostic interrupt no Diagnostic functions no Diagnostics information read-out none Module state green LED | <u> </u> | no |
| Diagnostic functions no Diagnostics information read-out none Module state green LED | Diagnostic interrupt | no |
| Diagnostics information read-out none Module state green LED | | no |
| Module state green LED | | none |
| Module error display red LED | | green LED |
| | Module error display | <u> </u> |



| Channel error display | none | A YASKAWA COMPANY | |
|------------------------------------|-----------------------|----------------------------|--|
| Isolation | | | |
| Between channels | - | | |
| Between channels of groups to | - | | |
| Between channels and backplane bus | yes | ves | |
| Insulation tested with | DC 500 V | | |
| Safety | | | |
| Safety protocol | - | | |
| Safety requirements | - | | |
| Secure user address | - | | |
| Watchdog | - | | |
| Two channels | - | - | |
| Test pulse outputs | - | | |
| Datasizes | | | |
| Input bytes | 1 | | |
| Output bytes | 0 | 0 | |
| Parameter bytes | 0 | 0 | |
| Diagnostic bytes | 0 | 0 | |
| Housing | | | |
| Material | PPE / PPE GF10 | PPE / PPE GF10 | |
| Mounting | Profile rail 35 mm | Profile rail 35 mm | |
| Mechanical data | | | |
| Dimensions (WxHxD) | 12.9 mm x 109 mm x 70 | 12.9 mm x 109 mm x 76.5 mm | |
| Weight | 60 g | 60 g | |
| Environmental conditions | | | |
| Operating temperature | 0 °C to 60 °C | | |
| Storage temperature | -25 °C to 70 °C | -25 °C to 70 °C | |
| Certifications | | | |
| UL certification | yes | | |
| KC certification | yes | yes | |
| | | | |