

Data sheet SM 021 (021-1BD00)

Technical data

| Type SM 021 Module ID 0003 9F84 General information - Retarters 4 inputs Current consumption/power loss 55 mA Current consumption from backplane bus 55 mA Power loss 0.6 W Technical data digital inputs 4 Cable length, shielded 1000 m Cable length, shielded 600 m Rated load voltage - Current consumption from backplane bus 5 for A Cable length, shielded 0000 m Cable length, unshielded 6000 m Rated load voltage - Current consumption from load voltage L+ (without load) - Rated value DC 20.428.8 V Input voltage for signal "1" DC 1528.8 V Input voltage for signal "1" DC 1528.8 V Input voltage for signal "1" MA Connection of Two-Wire-BEROs possible Imput topication of Two-Wire-BEROs possible Max. permissible BERO quiescent current 0.5 mA Input delay of "1" to "0" 3 ms Number of simultaneousl | Order no. | 021-1BD00 |
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| Jum Jum General information - Restures 4 inputs Current consumption/power loss 55 mA Current consumption/power loss 0.6 W Technical data digital inputs 55 mA Power loss 0.6 W Technical data digital inputs 4 Cable length, unbilded 600 m Cable length, unbilded 600 m Rated load voltage - Current consumption from load voltage L+ (without load) - Rated value DC 20.428.8 V Input voltage for signal '0' DC 1.528.8 V Input voltage for signal '1' DC 1.528.8 V Input voltage for signal '1' 3 mA Connection of Two-Wire-BEROs possible Imput resistance Input trensitance - Input delay of '1'to '0' 3 ms Number of simultaneously utilizable inputs writical configuration 4 Status disize 4 Bat Status disize 4 Bat Status disize Generation, unametical configuration Number of simultaneously utilizable inputs | | |
| General information Note - Fatures 4 inputs Current consumption/power loss 0.6 W Current consumption from backplane bus 55 mA Power loss 0.6 W Technical data digital inputs 4 Cable length, shielded 1000 m Cable length, unshieldad 600 m Cable length, unshielded 0.0 C 0. Current consumption from load voltage L+ (without load) - Rated value DC 20.428.8 V Input voltage for signal "0" DC 0.5 V Input voltage for signal "1" DC 1528.8 V Input voltage for signal "1" S mA Connection of Two-Wire-BEROs possible ✓ Max. permissible BERO quiescent current 0.5 mA Input delay of "1" to "0" 3 ms Number of simultaneously utilizable inputs horizontal 4 Input delay of "1" to "0" 3 ms Number of simultaneously utilizable inputs wertical configuratio 4 < | | |
| Note - Features 4 inputs Current consumption from backplane bus 55 mA Power loss 0.6 W Technical data digital inputs 4 Cable length, shielded 1000 m Cable length, shielded 600 m Rated load voltage - Current consumption from load voltage L+ (without load) - Rated value DC 20.428.8 V Input voltage for signal '0' DC 05 V Input voltage for signal '1' DC 1528.8 V Input voltage for signal '0' DC 05 V Input voltage for signal '1' 3 mA Connection of Two-Wire-BEROs possible Imput voltage for signal '1' Input delay of '1' to '0' 3 ms Input delay of '1' to '0' 3 ms Input delay of '1' to '0' 3 ms Number of simultaneously utilizable inputs writical configuration 4 Input delay of '1' to '0' 3 ms Number of simultaneously utilizable inputs writical configuration 4 Input delay of '1' to '0' 3 ms Number of simultaneously utilizable inputs writical con | | |
| Features 4 inputs Current consumption/power loss 55 mA Current consumption from backplane bus 55 mA Power loss 0.6 W Technical data digital inputs 4 Cable length, shielded 1000 m Cable length, unshielded 600 m Rated load voltage - Current consumption from load voltage L+ (without load) - Current consumption from load voltage L+ (without load) - Current consumption from load voltage L+ (without load) - Current consumption from load voltage L+ (without load) - Input voltage for signal "0" DC 05 V Input voltage for signal "1" DC 1.5.28 V Input voltage for signal "1" DC 1.5.28 V Input voltage for signal "1" S mA Connection of Two-Wire-BEROS possible ✓ Max. permissible BERO quiescent current 0.5 mA Input delay of "1" to "0" 3 ms Input delay of "1" to "0"< | General information | |
| Current consumption/power loss 55 mA Current consumption from backplane bus 55 mA Power loss 0.6 W Technical data digital inputs 4 Number of inputs 4 Cable length, shielded 1000 m Cable length, unshielded 600 m Rated load voltage - Current consumption from load voltage L+ (without load) - Rated value DC 20.428.8 V Input voltage for signal *1* DC 1528.8 V Input voltage for signal *1* SmA Connection of Two-Wire-BEROS possible ✓ Max. permissible BERO quiescent current 0.5 mA Input delay of *1* to *0* 3 ms Number of simultaneously utilizable inputs vortical configuration 4 Number of simultaneously utilizable inputs vortical configuration 4 Input delay of *1* to *0* 3 ms Number of simultaneously utilizable inputs vertical configuration 4 Status information, alarms, diagnostics | Note | - |
| Current consumption from backplane bus 55 mA Power loss 0.6 W Technical data digital inputs 4 Cable length, shielded 1000 m Cable length, unshielded 600 m Rated load voltage - Current consumption from load voltage L+ (without load) - Rated value DC 20.428.8 V Input voltage for signal '0' DC 05 V Input voltage for signal '1" DC 1.528.8 V Input voltage for signal '1" DC 1.528.8 V Input voltage hysteresis - - - Input voltage hysteresis - - - Input current for signal '1" 3 mA Connection of Two-Wire-BEROs possible Imput delay of '1' to '0' to '1" Max. permissible BERO quiescent current 0.5 mA Input delay of '1' to '0' to '1" 3 ms Number of simultaneously utilizable inputs horizontal configuration 4 Number of simultaneously utilizable inputs horizontal configuration 4 Status display green LED per channel Intrial data size 4 Bit Status display green LED per channel Interrupts no Process alarm no Diagnostic interrupt none <td>Features</td> <td>4 inputs</td> | Features | 4 inputs |
| Power loss 0.6 W Technical data digital inputs Input second se | Current consumption/power loss | |
| Technical data digital inputs 4 Number of inputs 4 Cable length, shielded 1000 m Cable length, unshielded 600 m Rated load voltage - Current consumption from load voltage L+ (without load) - Rated value DC 20.428.8 V Input voltage for signal *0* DC 05 V Input voltage for signal *1* DC 1528.8 V Input voltage hysteresis - Input voltage for signal *1* DC 1528.8 V Input resistance - Input resistance - Input delay of *1** 3 mA Connection of Two-Wire-BEROs possible Input delay of *1*** Max. permissible BERO quiescent current 0.5 mA Input delay of *1*** 0** 3 ms Number of simultaneously utilizable inputs vertical configuration 4 Input characteristic curve IEC 61131-2, type 1 Initial data size | Current consumption from backplane bus | 55 mA |
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| Cable length, unshielded 600 m Rated load voltage - Current consumption from load voltage L+ (without load) - Rated value DC 20.428.8 V Input voltage for signal *0* DC 05 V Input voltage for signal *1* DC 1528.8 V Input resistance - Input resistance - Connection of Two-Wire-BEROs possible Imput delay of *0* to *1* Max. permissible BERO quiescent current 0.5 mA Input delay of *0* to *1* 3 ms Input delay of *0* to *1* 3 ms Number of simultaneously utilizable inputs horizontal 4 Voltage to size 4 Bit Status Information, alarms, diagnostics green LED per channel Interrupts no Process alarm no Diagnostic functions no Diagnostic functions no Diagnostic information read-out none Module state green LED | Number of inputs | 4 |
| Rated load voltage-Current consumption from load voltage L+ (without load)-Rated valueDC 20.428.8 VInput voltage for signal "0"DC 1528.8 VInput voltage for signal "1"DC 1528.8 VInput voltage hysteresis-Frequency range-Input resistance-Input current for signal "1"3 mAConnection of Two-Wire-BEROs possibleImage: Connection of Two-Wire-BEROs possibleMax. permissible BERO quiescent current0.5 mAInput delay of "0" to "1"3 msInput delay of "0" to "1"3 msNumber of simultaneously utilizable inputs vortical configuration4Number of simultaneously utilizable inputs vertical configuration4Status information, alarms, diagnosticsgreen LED per channelInterruptsnoProcess alarmnoDiagnostic interruptnoDiagnostic interruptnoDiagnostic interruptnoneMoule stategreen LEDMoule stategreen LED | Cable length, shielded | 1000 m |
| Current consumption from load voltage L+ (without load)-Rated valueDC 20.428.8 VInput voltage for signal "0"DC 05 VInput voltage for signal "1"DC 1528.8 VInput voltage hysteresis-Frequency range-Input resistance-Input current for signal "1"3 mAConnection of Two-Wire-BEROs possibleImage: Connection of Two-Wire-BEROs possibleMax. permissible BERO quiescent current0.5 mAInput delay of "0" to "1"3 msInput delay of "1" to "0"3 msNumber of simultaneously utilizable inputs horizontal4Number of simultaneously utilizable inputs vertical configuration4Status information, alarms, diagnosticsStatus displayStatus displaygreen LED per channelInterruptsnoProcess alarmnoDiagnostic interruptnoDiagnostic information read-outnoneModule stategreen LED | Cable length, unshielded | 600 m |
| Rated valueDC 20.428.8 VInput voltage for signal "0"DC 05 VInput voltage for signal "1"DC 1528.8 VInput voltage hysteresis-Frequency range-Input resistance-Input current for signal "1"3 mAConnection of Two-Wire-BEROs possibleImput delay of "0" to "1"Max. permissible BERO quiescent current0.5 mAInput delay of "0" to "1"3 msInput delay of "1" to "0"3 msNumber of simultaneously utilizable inputs horizontal configuration4Input dela size4 BitStatus displaygreen LED per channel noInerruptsnoProcess alarmnoDiagnostic information read-outnoneModule stategreen LEDModule stategreen LED | Rated load voltage | - |
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| Frequency range-Input resistance-Input current for signal "1"3 mAConnection of Two-Wire-BEROs possibleImput delay of "0" to "1"Max. permissible BERO quiescent current0.5 mAInput delay of "0" to "1"3 msInput delay of "0" to "1"3 msNumber of simultaneously utilizable inputs horizontal configuration4Input characteristic curveIEC 61131-2, type 1Intital data size4 BitStatus display Process alarmgreen LED per channelInterruptsnoProcess alarmnoDiagnostic information read-outnoneModule stategreen LED | Input voltage for signal "1" | DC 1528.8 V |
| Input resistance - Input current for signal "1" 3 mA Connection of Two-Wire-BEROs possible ✓ 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 4 Input characteristic curve IEC 61131-2, type 1 Initial data size 4 Bit Status display green LED per channel Interrupts no Process alarm no Diagnostic interrupt no Diagnostic information read-out none Module state green LED | Input voltage hysteresis | - |
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| Max. permissible BERO quiescent current0.5 mAInput delay of "0" to "1"3 msInput delay of "1" to "0"3 msNumber of simultaneously utilizable inputs horizontal configuration4Number of simultaneously utilizable inputs vertical configuration4Input characteristic curveIEC 61131-2, type 1Initial data size4 BitStatus information, alarms, diagnosticsStatus displaygreen LED per channelInterruptsnoProcess alarmnoDiagnostic interruptnoDiagnostic functionsnoDiagnostic information read-outnoneMuthe stategreen LEDMax information read-outnoneMax informatio | Input current for signal "1" | 3 mA |
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| configurationNumber of simultaneously utilizable inputs vertical configuration4Input characteristic curveIEC 61131-2, type 1Initial data size4 BitStatus information, alarms, diagnosticsStatus displaygreen LED per channelInterruptsnoProcess alarmnoDiagnostic interruptnoDiagnostic functionsnoDiagnostic functionsnoDiagnostics information read-outnoneModule stategreen LED | Input delay of "1" to "0" | 3 ms |
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| Initial data size4 BitStatus information, alarms, diagnosticsStatus displaygreen LED per channelInterruptsnoProcess alarmnoDiagnostic interruptnoDiagnostic functionsnoDiagnostic sinformation read-outnoneModule stategreen LED | Number of simultaneously utilizable inputs vertical configuration | 4 |
| Status information, alarms, diagnosticsStatus displaygreen LED per channelInterruptsnoProcess alarmnoDiagnostic interruptnoDiagnostic functionsnoDiagnostics information read-outnoneModule stategreen LED | Input characteristic curve | IEC 61131-2, type 1 |
| Status displaygreen LED per channelInterruptsnoProcess alarmnoDiagnostic interruptnoDiagnostic functionsnoDiagnostics information read-outnoneModule stategreen LED | Initial data size | 4 Bit |
| Interrupts no Process alarm no Diagnostic interrupt no Diagnostic functions no Diagnostics information read-out none Module state green LED | Status information, alarms, diagnostics | |
| Process alarmnoDiagnostic interruptnoDiagnostic functionsnoDiagnostics information read-outnoneModule stategreen LED | Status display | green LED per channel |
| Diagnostic interrupt no Diagnostic functions no Diagnostics information read-out none Module state green LED | Interrupts | no |
| Diagnostic functions no Diagnostics information read-out none Module state green LED | Process alarm | no |
| Diagnostics information read-out none Module state green LED | Diagnostic interrupt | no |
| Module state green LED | Diagnostic functions | no |
| · | Diagnostics information read-out | none |
| Module error display red LED | Module state | green LED |
| | Module error display | red LED |



| Between channels - Between channels and backplane bus ✓ Insulation tested with DC 500 V Safety Safety Safety protocol - Safety requirements - Secure user address - Watchdog - Two channels - Datasizes - Input bytes 1 Output bytes 0 Diagnostic bytes 0 Diagnostic bytes 0 Bethraid PPE / PPE GF10 Mounting Profile rail 35 mm Mechanical data 1.2.9 mm x 109 mm x 76.5 mm Weight 60 g Environmental conditions 0.°C to 60 °C Storage temperature 0.°C to 60 °C | Isolation | |
|---|------------------------------------|----------------------------|
| Between channels and backplane bus Insulation tested with DC 500 V Safety - Safety protocol - Safety requirements - Secure user address - Watchdog - Two channels - Tost pulse outputs - Datasizes - Input bytes 1 Output bytes 0 Parameter bytes 0 Diagnostic bytes 0 Houting PPE / PPE GF10 Mounting PPE / PPE GF10 Mounting 12.9 mm x 109 mm x 76.5 mm Weight 60 g Environmental conditions 0 °C Co 60 °C Storage temperature 0 °C Co 60 °C Storage temperature 0 °C Co 70 °C | Between channels | - |
| Insulation tested with DC 500 V Safety Safety Safety protocol - Safety requirements - Secure user address - Watchdog - Two channels - Test pulse outputs - Datasizes - Input bytes 1 Output bytes 0 Parameter bytes 0 Diagnostic bytes 0 Housing Profile rail 35 mm Mechanical data 12.9 mm x 109 mm x 76.5 mm Weight 60 g Environmental conditions 0 °C Oreal conditions - Oreal conditions - | Between channels of groups to | - |
| Safety Safety protocol - Safety requirements - Secure user address - Watchdog - Two channels - Tot channels - Datasizes - Input bytes 1 Output bytes 0 Parameter bytes 0 Diagnostic bytes 0 Housing Profile rail 35 mm Mounting Profile rail 35 mm Mechanical data 12.9 mm x 109 mm x 76.5 mm Weight 60 g Environmental conditions - Orec to 60 °C Storage temperature Orec to 60 °C Storage temperature | Between channels and backplane bus | 1 |
| Safety protocol-Safety requirements-Secure user address-Watchdog-Two channels-Test pulse outputs-Datasizes1Input bytes0Parameter bytes0Diagnostic bytes0HousingPPE / PPE GF10MaterialPPC / PPE GF10Mechanical data12.9 mm x 109 mm x 76.5 mmWeight60 gEnvironmental conditions0°C to 60 °CStorage temperature-Certifications-Certifications- | Insulation tested with | DC 500 V |
| Safety requirements - Secure user address - Watchdog - Two channels - Test pulse outputs - Datasizes - Input bytes 1 Output bytes 0 Parameter bytes 0 Diagnostic bytes 0 Housing Profile rail 35 mm Mechanical data PPE / PPE GF10 Dimensions (WxHxD) 12.9 mm x 109 mm x 76.5 mm Weight 60 g Environmental conditions 0 °C to 60 °C Storage temperature 0 °C to 70 °C Certifications -25 °C to 70 °C | Safety | |
| Secure user address-Watchdog-Two channels-Test pulse outputs-Datasizes1Input bytes0Parameter bytes0Diagnostic bytes0HousingPPE / PPE GF10MaterialPPE / PPE GF10MountingProfile rail 35 mmMechanical data2.9 mm x 109 mm x 76.5 mmWeight60 gEnvironmental conditions0 °C to 60 °CStorage temperature-25 °C to 70 °CCertifications- | Safety protocol | - |
| Watchdog - Two channels - Test pulse outputs - Datasizes - Input bytes 1 Output bytes 0 Parameter bytes 0 Diagnostic bytes 0 Housing - Material PPE / PPE GF10 Mounting Profile rail 35 mm Mechanical data - Dimensions (WxHxD) 12.9 mm x 109 mm x 76.5 mm Weight 60 g Environmental conditions - Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C | Safety requirements | - |
| Two channels - Test pulse outputs - Datasizes - Input bytes 1 Output bytes 0 Parameter bytes 0 Diagnostic bytes 0 Housing - Material PPE / PPE GF10 Mounting Profile rail 35 mm Mechanical data - Dimensions (WxHxD) 12.9 mm x 109 mm x 76.5 mm Weight 60 g Environmental conditions 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications - | Secure user address | - |
| Test pulse outputs - Datasizes 1 Input bytes 0 Output bytes 0 Parameter bytes 0 Diagnostic bytes 0 Housing 0 Material PPE / PPE GF10 Mounting Profile rail 35 mm Mechanical data 2.9 mm x 109 mm x 76.5 mm Weight 60 g Environmental conditions 0 °C to 60 °C Storage temperature -25 °C to 70 °C | Watchdog | - |
| Datasizes Input bytes 1 Output bytes 0 Parameter bytes 0 Diagnostic bytes 0 Housing 0 Material PPE / PPE GF10 Mounting Profile rail 35 mm Mechanical data Dimensions (WxHxD) Dimensions (WxHxD) 12.9 mm x 109 mm x 76.5 mm Weight 60 g Environmental conditions 0 °C to 60 °C Storage temperature -25 °C to 70 °C | Two channels | - |
| Input bytes 1 Output bytes 0 Parameter bytes 0 Diagnostic bytes 0 Housing Material PPE / PPE GF10 Mounting Profile rail 35 mm Mechanical data Dimensions (WxHxD) 12.9 mm x 109 mm x 76.5 mm Weight 60 g Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C | Test pulse outputs | - |
| Output bytes 0 Parameter bytes 0 Diagnostic bytes 0 Housing 0 Material PPE / PPE GF10 Mounting Profile rail 35 mm Mechanical data 12.9 mm x 109 mm x 76.5 mm Weight 60 g Environmental conditions 0 °C to 60 °C Storage temperature -25 °C to 70 °C | Datasizes | |
| Parameter bytes 0 Diagnostic bytes 0 Housing Material PPE / PPE GF10 Mounting Profile rail 35 mm Mechanical data Dimensions (WxHxD) 12.9 mm x 109 mm x 76.5 mm Weight 60 g Environmental conditions 0 °C to 60 °C Storage temperature -25 °C to 70 °C | Input bytes | 1 |
| Diagnostic bytes 0 Housing PPE / PPE GF10 Material Profile rail 35 mm Mechanical data Profile rail 35 mm Dimensions (WxHxD) 12.9 mm x 109 mm x 76.5 mm Weight 60 g Environmental conditions 0 °C to 60 °C Storage temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C | Output bytes | 0 |
| Housing PPE / PPE GF10 Material Profile rail 35 mm Mechanical data Intervention Dimensions (WxHxD) 12.9 mm x 109 mm x 76.5 mm Weight 60 g Environmental conditions 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications Intervention | Parameter bytes | 0 |
| MaterialPPE / PPE GF10MountingProfile rail 35 mmMechanical dataI2.9 mm x 109 mm x 76.5 mmDimensions (WxHxD)12.9 mm x 109 mm x 76.5 mmWeight60 gEnvironmental conditionsOperating temperature0 °C to 60 °CStorage temperature-25 °C to 70 °CCertifications | Diagnostic bytes | 0 |
| Mounting Profile rail 35 mm Mechanical data Dimensions (WxHxD) 12.9 mm x 109 mm x 76.5 mm Weight 60 g Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications | Housing | |
| Mechanical data Dimensions (WxHxD) 12.9 mm x 109 mm x 76.5 mm Weight 60 g Environmental conditions 0 °C to 60 °C Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications 1000000000000000000000000000000000000 | Material | PPE / PPE GF10 |
| Dimensions (WxHxD) 12.9 mm x 109 mm x 76.5 mm Weight 60 g Environmental conditions 0 °C to 60 °C Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C | Mounting | Profile rail 35 mm |
| Weight 60 g Environmental conditions 0 °C to 60 °C Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C | Mechanical data | |
| Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications | Dimensions (WxHxD) | 12.9 mm x 109 mm x 76.5 mm |
| Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C | Weight | 60 g |
| Storage temperature -25 °C to 70 °C Certifications | Environmental conditions | |
| Certifications | Operating temperature | 0 °C to 60 °C |
| | Storage temperature | -25 °C to 70 °C |
| UL508 certification yes | Certifications | |
| | UL508 certification | yes |

none

Channel error display