## Data sheet

FM 050 (050-1BA10)

Technical data

| Order no. | 050-1BA10 |
| :---: | :---: |
| Type | FM 050 |
| Module ID | 08C2 3801 |
| General information |  |
| Note | - |
| Features | $1 \times$ Counter 32 Bit (AB), DC 5 V Up to 2 MHz (difference signal) |
| Current consumption/power loss |  |
| Current consumption from backplane bus | 75 mA |
| Power loss | 0.85 W |
| Technical data digital inputs |  |
| Number of inputs | - |
| Cable length, shielded | 100 m |
| Cable length, unshielded | - |
| Rated load voltage | DC 20.4...28.8 V |
| Reverse polarity protection of rated load voltage | - |
| Current consumption from load voltage L+ (without load) | 20 mA |
| Rated value | - |
| Input voltage for signal "0" | Differential signal RS422 |
| Input voltage for signal "1" | Differential signal RS422 |
| Input voltage hysteresis | - |
| Signal logic input | - |
| Frequency range | - |
| Input resistance | 120 Ohm |
| Input current for signal "1" | - |
| Connection of Two-Wire-BEROs possible | - |
| Max. permissible BERO quiescent current | - |
| Input delay of "0" to "1" | $0.8 \mu \mathrm{~s}$ |
| Input delay of "1" to "0" | $0.8 \mu \mathrm{~s}$ |
| Number of simultaneously utilizable inputs horizontal configuration | - |
| Number of simultaneously utilizable inputs vertical configuration | - |
| Input characteristic curve | - |
| Initial data size | 8 Byte |
| Technical data digital outputs |  |
| Number of outputs | - |
| Cable length, shielded | - |
| Cable length, unshielded | - |
| Rated load voltage | - |
| Current consumption from load voltage L+ (without load) | - |
| Output delay of "0" to "1" | - |
| Output delay of "1" to "0" | - |
| Minimum load current | - |



| Datasizes | 8 |
| :--- | :--- |
| Input bytes | 10 |
| Output bytes | 23 |
| Parameter bytes | 20 |
| Diagnostic bytes | PPE / PPE GF10 |
| Housing | Profile rail 35 mm |
| Material | $12.9 \mathrm{~mm} \times 109 \mathrm{~mm} \times 76.5 \mathrm{~mm}$ |
| Mounting | 58 g |
| Mechanical data | 58 g |
| Dimensions (WxHxD) | 72 g |
| Net weight |  |
| Weight including accessories | $0{ }^{\circ} \mathrm{C}$ to $60^{\circ} \mathrm{C}$ |
| Gross weight | $-25^{\circ} \mathrm{C} \mathrm{to} 70^{\circ} \mathrm{C}$ |
| Environmental conditions |  |
| Operating temperature | yes |
| Storage temperature | yes |
| Certifications | UL certification <br> KC certification |

