

**Data sheet**  
**FM 050 (050-1BS00)**
**Technical data**

<b>Order no.</b>	<b>050-1BS00</b>
Type	FM 050
Module ID	09C1 7800
<b>General information</b>	
Note	-
Features	SSI - Encoder, master or slave mode Encoder frequency 125 kHz...2 MHz ?s time stamp for encoder value Comparison function Alarm function Diagnostic function
<b>Current consumption/power loss</b>	
Current consumption from backplane bus	85 mA
Power loss	1 W
Parallel switching of outputs for increased power	-
<b>Status information, alarms, diagnostics</b>	
Status display	yes
Interrupts	yes, parameterizable
Process alarm	no
Diagnostic interrupt	yes, parameterizable
Diagnostic functions	yes, parameterizable
Diagnostics information read-out	possible
Module state	green LED
Module error display	red LED
Channel error display	none
<b>Isolation</b>	
Between channels	-
Between channels of groups to	-
Between channels and backplane bus	yes
Between channels and power supply	-
Max. potential difference between circuits	-
Max. potential difference between inputs (Ucm)	-
Max. potential difference between Mana and Mintern (Uiso)	-
Max. potential difference between inputs and Mana (Ucm)	-
Max. potential difference between inputs and Mintern (Uiso)	-
Max. potential difference between Mintern and outputs	-
Insulation tested with	DC 500 V
<b>Technical data SSI</b>	
Interfaces type	RS422
Encoder frequency / baud rate	parameterizable (125k, 250k, 500k, 1M, 1.5M, 2MHz)
SSI pause time	parameterizable (1, 2, 4, 8, 16, 32, 48, 64µs)
Normalization	parameterizable (0...15 Bit)

Bit length encoder data	parameterizable (8...32 Bit)
Mode master	yes
Mode monitoring operation	yes
Shift direction MSB first	yes
Shift direction LSB first	yes
Binary code	yes
Gray code	yes

#### Datasizes

Input bytes	6
Output bytes	0
Parameter bytes	17
Diagnostic bytes	20

#### Housing

Material	PPE / PPE GF10
Mounting	Profile rail 35 mm

#### Mechanical data

Dimensions (WxHxD)	12.9 mm x 109 mm x 76.5 mm
Net weight	58 g
Weight including accessories	58 g
Gross weight	73 g

#### Environmental conditions

Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C

#### Certifications

UL certification	yes
KC certification	yes