Safety module
CAMC-G-S3
Part number: 1501331

FESTO

Data sheet

Feature	Value
Nominal voltage, logic supply DC	24 V
Nominal operating voltage DC	24 V
Nominal current, logic supply	0.15 A
Permissible range of logic voltage	± 20 %
Max. current consumption for logic supply without clamping brake	0.2 A
Short-circuit protection	Yes, exception: C1/C2 contact
Current rating at 40ºC	0.2 A
Fuse protection (short circuit)	no
Digital output design	Floating signal contact 3 safe, 2-channel semiconductor outputs
Number of digital logic inputs	10
Digital outputs, switching logic	Semiconductor outputs: parameterizable PNP (plus-switching), 2-channel, equivalent/antivalent
Dimensions W x L x H	112.2 mm x 99.1 mm x 28.7 mm
LED display (product-specific)	Fault (red) Normal operation (green) Safe state (yellow)
Safety function	Safe brake control (SBC) Safe speed range (SSR) Safe speed monitor (SSM) Safe torque off (STO) Safely limited speed (SLS) Safe operating stop (SOS) Safe stop 1 (SS1) Safe stop 2 (SS2)
PFH	9.5E-9
Proof test interval	20 y
Hardware fault tolerance	1
SFF safe failure fraction	99.5 %
Certified for safety function to ISO 13849 and IEC 61508 (SIL)	Product can be used in safety-related parts of control systems up to SIL 3, high demand
Safety integrity level (SIL)	Safe stop 2 (SS2)/SIL 3 Safe stop 1 (SS1)/SIL 3 Safe brake control (SBC)/SIL 3 Safely limited speed (SLS)/SIL 3 Safe operating stop (SOS)/SIL 3 Safe speed monitor (SSM)/SIL 3 Safe speed range (SSR)/SIL 3 Safe torque off (STO)/SIL 3

Feature	Value
Performance Level (PL)	Safe brake control (SBC)/category 4, performance level e Safely limited speed (SLS)/category 3, performance level e Safe operating stop (SOS)/category 3, performance level e Safe stop 1 (SS1)/category 3, performance level e Safe stop 2 (SS2)/category 3, performance level e Safe speed monitor (SSM)/category 3, performance level e Safe speed range (SSR)/category 3, performance level e Safe torque off (STO)/category 4, performance level e
Diagnostic coverage	97.5 %
Certified for safety functions to ISO 13849 (PL)	Product can be used in safety-related parts of control systems up to category 4, PL e
Certification	German Technical Control Board (TÜV)
CE marking (see declaration of conformity)	As per EU EMC directive as per EU machinery directive
Certificate issuing authority	01/205/5165.02/19 German Technical Control Board (TÜV) Rheinland
LABS conformity	VDMA24364 zone III
Storage temperature	-25 ºC ... 55 ºC
Relative air humidity	5 - 90 % Non-condensing
Degree of protection	IP20 In mounted state
Ambient temperature	0 ºC ... 40 ºC
Product weight	220 g
Type of mounting	Plug-in module for CMMP-AS...-M3
Note on materials	RoHS-compliant
Mounting position	Any
Type code	CAMC
Wire ends	Cable end sleeve
Connection cross section	0.25 mm² ... 0.5 mm²
Electrical connection	Screw terminal Plug, straight
Display	LED green/yellow/red
Control elements	DIL switch
Logic input specification	IEC 61131-2, type 3
Characteristics of logic input	4 safe 2-channel inputs, equivalent/antivalent switching, test pulses configurable, function configurable 6 safe, 1-channel inputs, test pulses configurable
Work range of logic input	13 V ... 28.8 V
Max. nominal input current	0.015 A
Debounce time at inputs	0.3 ms
Current rating per output	50 mA
Max. current of digital logic outputs	50 mA
Fuse protection for outputs	Short-circuit and cross-circuit monitoring
Minimum cycle time	2 ms
Parameterization	Via SafetyTool