

# Safety module CAMC-G-S3

Part number: 1501331

FESTO



 General operating condition

## Data sheet

Feature	Value
Nominal voltage for logic power supply DC	24 V
Nominal operating voltage DC	24 V
Nominal current logic power supply	0.15 A
Permissible range for logic voltage	±20%
Current consumption of logic power supply without clamping brake	0.2 A
Short circuit current rating	Yes, with one exception: Contact C1/C2
Current rating at 40° C	0.2 A
Fuse protection (short circuit)	No
Digital output design	Potential-free signal contact 3 safe, 2-channel semiconductor outputs
Number of digital logic inputs	10
Digital outputs, switching logic	Semiconductor outputs: parameterisable PNP (positive 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	Error (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)
Probability of Failure per Hour (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 SRP/CS 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 SRP/CS up to category 4, PL e
Approval	German Technical Control Board (TÜV)
CE mark (see declaration of conformity)	To EU EMC Directive To EC Machinery Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK regulations for machines To UK RoHS instructions
Certificate issuing authority	TÜV Rheinland 01/205/5165.03/24
LABS (PWIS) conformity	VDMA24364 zone III
Storage temperature	-25 °C ... 55 °C
Relative air humidity	5 - 90% Non-condensing
Degree of protection	IP20 In mounted state
Ambient temperature	0 °C ... 40 °C
Product weight	220 g
Type of mounting	Plug-in module for CMMP-AS...-M3
Note on materials	RoHS compliant
Mounting position	Any
Wire ends	Wire ferrule
Connection cross section	0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>
Electrical connection	Screw terminal Straight plug
Display	Green/yellow/red LED
Operator controls	DIL switch
Specification logic input	IEC 61131-2, type 3
Features of logic input	4 safe, 2-channel inputs Equivalent/antivalent switching Test pulses configurable Function configurable 6 safe, 1-channel inputs Test pulses configurable
Working range of logic input	13 V ... 28.8 V
Max. nominal input current	0.015 A
Debounce time for inputs	0.3 ms
Current rating per output	50 mA
Max. current digital logic outputs	50 mA
Fuse capacity of outputs	Short-circuit and cross-circuit monitoring
Min. cycle time	2 ms
Parameterisation	Via SafetyTool