Safety System
CMGA-B1-M1-L1-A0
Part number: 1680824

FESTO
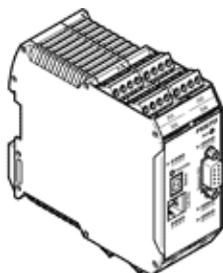
Data sheet

Feature	Value
Safety function	Safely-limited speed (SLS)
	Safe acceleration range (SAR)
	Safely-limited acceleration (SLA)
	Safe operating stop (SOS)
	Safe stop 2 (SS2)
	Safe stop 1 (SS1)
	Safe torque off (STO)
	Safely-limited position (SLP)
	Encoder Supervisor (ECS)
	Position Deviation Muting (PDM)
	safe evaluation encoder
	safe logic functions
	Safe emergency stop drive control (SEL)
	Safe cam (SCA)
	Safe brake control (SBC)
	Safe direction of movement (SDI)
	Safely-limited increment (SLI)
Number of digital logic inputs	14
Performance level (PL)	up to Category 4, Performance Level e
Safety Integrity Level (SIL)	SIL 3
Certificate issuing department	TÜV Rheinland
Probability of Failure per Hour in [1/h].	2.2E-09
Proof test interval	20 a
Digital inputs, number	6
Digital inputs, number OSSD-compatible	8
Digital inputs, nominal operating voltage DC	24 V
Digital inputs, nominal current	20 mA
Specification, logic input	Based on IEC 61131-2
Logic input working range	20.4 ... 28.8 V
Design of the digital output	2 safe digital outputs
	1 safe relay output
	2 signal outputs
	2 pulse outputs
Digital outputs, number of safe relay outputs	1
Digital outputs, nominal voltage AC, relay output	230 V
Digital outputs, nominal voltage DC, relay output	24 V
Digital outputs, relay output nominal current	2 A
Digital outputs, number of safe digital outputs	2
Digital outputs, nominal current of safe digital outputs	250 mA
Digital outputs, number of signal outputs	2
Digital outputs, signal output nominal current	100 mA
Digital outputs, number of pulse outputs	2
Digital outputs, pulse output nominal current	<= 250 mA
Max. current, digital logic outputs	250 mA
Nominal DC voltage, logic power supply	24 V
Permissible range, logic voltage	-15% - 20%

Feature	Value
Nominal operating voltage DC	24 V
Nominal current, logic supply	<= 2 A
Power consumption 24 V	<= 2.4 W
Encoder interface input, function	1 proximity sensor
	1 inkr.-HTL
	1 SSI
	1 inkr.-TTL
	1 sin/cos
Terminal cross-section	<= 1.5 mm2
Electrical connection	Plug-in
Display	LED
	Seven-segment display
Control elements	None
Protection class	IP20
Ambient temperature	0 ... 50 °C
Storage temperature	-10 ... 70 °C
Shock resistance	as per EN 60068-2-29
Vibration resistance	as per EN 60068-2-6
Product weight	310 g
Dimensions W x L x H	45 mm x 115 mm x 100 mm
Mounting type	with top-hat rail
Assembly position	Free convection
	Vertical
CE symbol (see declaration of conformity)	according to EU machines guideline
	according to EU-EMV guideline
Authorization	C-Tick
Materials note	Conforms to RoHS
	Contains PWIS substances