MGB-L2B-PNA-L-114045 (ORDER NO. 114045)

Evaluation module and bus module MGB-L2...-PN... (guard locking by solenoid force) without controls or indicators, push-pull plug

- Guard locking with guard lock monitoring
- Push-pull plug
- Pre-assembled on mounting plates
- Integrated Profinet RT switch
- Unicode

Description

Profinet connection

Connection via push-pull plugs according to IEC 61076-3-117

Profinet RT switch

Point-to-point topology network structure due to integrated RT switch.

Flexible use as interlocking or guard locking

By means of the corresponding evaluation of the safe device data by the control system, use can be as either interlocking or guard locking (with or without monitoring).

Technical data

Approvals

Work area

Assured release distance s_{ar}		
	Door position	max. 65 mm

Controls and indicators

Assignment diagram	
	L0
	B0

Electrical connection ratings

Connecting cable		
	Ethernet	Profinet I/O cable, at least cat. 5e
Current consumption		max. 500 mA
Degree of contamination (external, according to EN 60947-1)		3
EMC protection requirements		In accordance with EN 61000-4 and EN 61326-3-1
maximum feed-in current in the connection block		
	X1, X2	max. 4000 mA
Rated impulse withstand voltage U_{imp}		0.5 kV
Rated insulation voltage U_i		75 V
Safety class		III
Transponder coding		Unicode
		Power supply X1
Auxiliary voltage DC		
	L2	24 V DC -15% ... +10% (The auxiliary voltage is not required for the MGB system)
Fusing		
	extern	min. 1 A träge
Operating voltage DC		
	L1	24 V DC -15% ... +10% ((verpolsicher, geregelt, Restwelligkeit <5%, PELV))
		Power supply X2
Auxiliary voltage DC		
	L2	24 V DC -15% ... +10% (For looping through for connected devices)
Operating voltage DC		
	L1	24 V DC -15% ... +10% (Zum Weiterschleifen für nachfolgende Geräte)

Mechanical values and environment

Ambient temperature	
at UB = 24V DC	-20 ... +55 °C
Connection	
according to IEC 61076-3-117, variant 14, screened, Profinet I/O cable, at least cat. 5e	Push-pull RJ45 (X3 (The document PROFINET “Cabling and Interconnection Technology” from the PNO aids in the correct selection of cables.))
according to IEC 61076-3-117, variant 14, screened, Profinet I/O cable, at least cat. 5e	Push-pull RJ45 (X4 (The document PROFINET “Cabling and Interconnection Technology” from the PNO aids in the correct selection of cables.))
	Push-pull power (X1 (The document PROFINET “Cabling and Interconnection Technology” from the PNO aids in the correct selection of cables.))
	Push-pull power (X2 (The document PROFINET “Cabling and Interconnection Technology” from the PNO aids in the correct selection of cables.))
Degree of protection	IP54
Guard locking principle	Open-circuit current principle
Installation orientation	Door hinge DIN left
Locking force F_{Zh}	2000 N
Material	
Housing	Fiber glass reinforced plastic, nickel-plated die-cast zinc, stainless steel
Mechanical life	
in case of use as door stop, and 1 Joule impact energy	0.1×10^6
	1×10^6
Reaction time	
Door position	max. 550 ms Turn-off time (The reaction time is the max. time between the change in the input status and the deletion of the corresponding bit in the bus protocol.)
Bolt position	max. 550 ms Turn-off time (The reaction time is the max. time between the change in the input status and the deletion of the corresponding bit in the bus protocol.)
Guard locking	max. 550 ms Turn-off time (The reaction time is the max. time between the change in the input status and the deletion of the corresponding bit in the bus protocol.)
Shock and vibration resistance	according to EN 60947-5-3
Switching frequency	0.25 Hz

Reliability values according to EN ISO 13849-1

Mission time	20 y
Safety Integrity Level	SIL 3 (EN 62061:2005)
	Monitoring of guard locking and the guard position
Category	4
Diagnostic Coverage (DC)	99 %
Performance Level	PL e
PFHd	4.07 x 10-8 (Fixed failure rate without consideration of faults in wearing parts.)

Miscellaneous

Product version number	V3.30.10

Interface, bus

Bus data protocol	Profinet (IEC 61158 type 10)
Data interface	
	Ethernet
Safety data protocol	Profisafe (IEC 61784-3-3)

Contacts

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