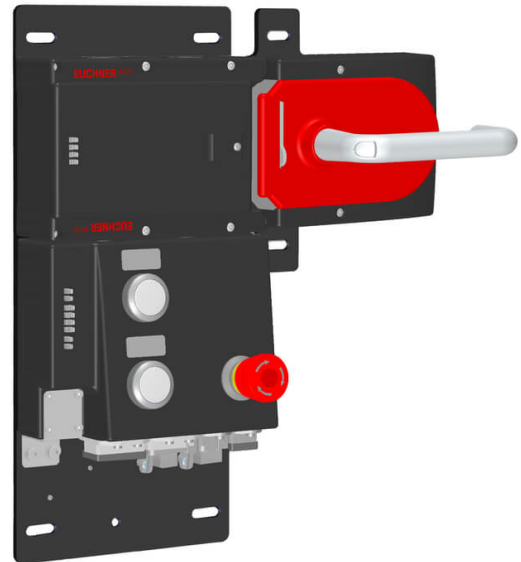


MGB-L2HB-PNA-R-121849 (ORDER NO. 121849)

Locking set MGB-L2...-PN... (guard locking by solenoid force) with 3 controls, push-pull plug

- ▶ Guard locking with guard lock monitoring
- ▶ Emergency stop according to ISO 13850, illuminated
- ▶ 2 illuminated pushbuttons
- ▶ including adhesive labels
- ▶ 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.

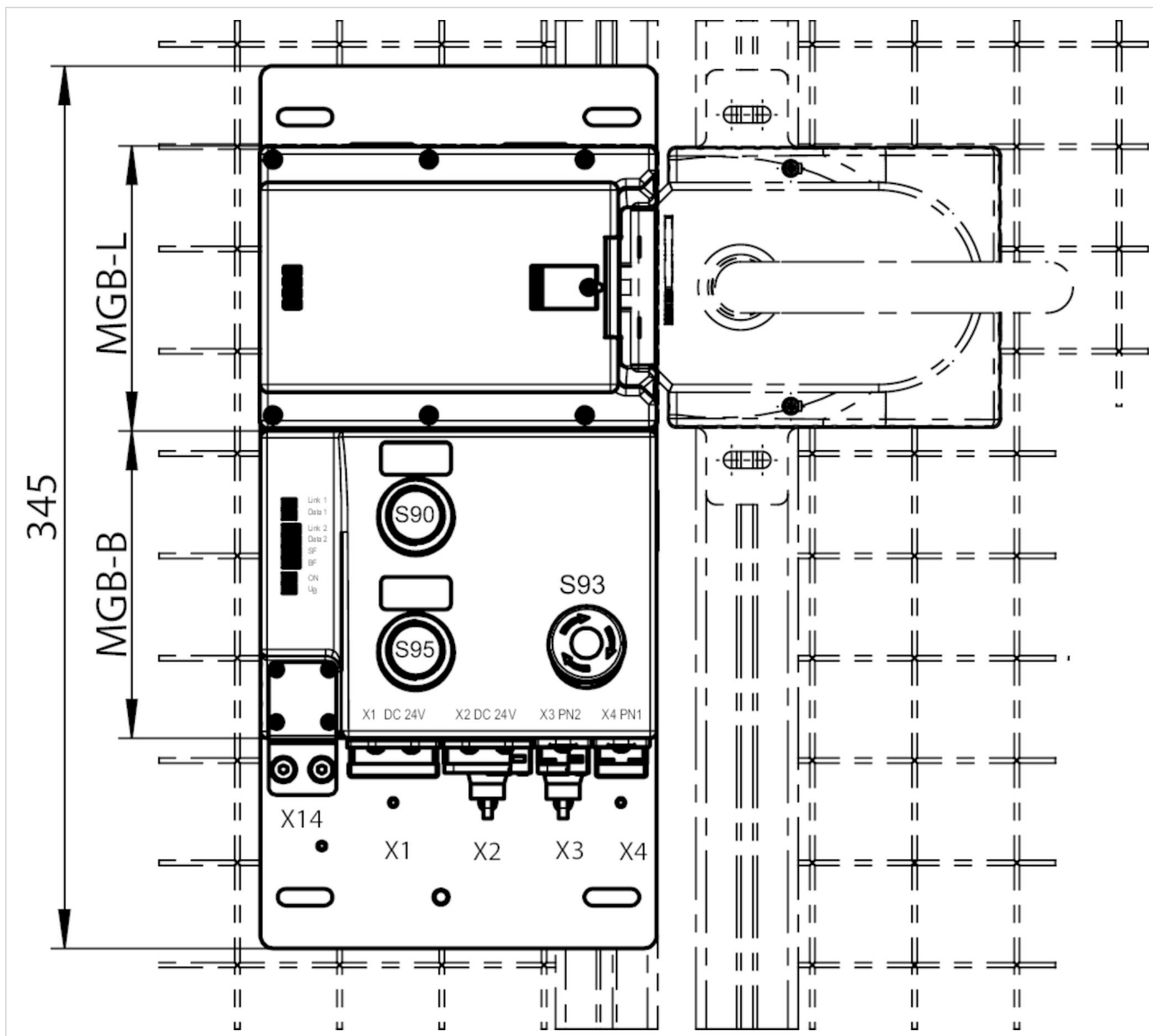
Flexible use as interlocking or guard locking

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).

Illuminated emergency stop

Emergency stop with illumination that can be controlled as required.

Dimension drawing



Technical data

Locking module MGB-L2B-PNA-R-121848 (Order no. 121848)



Mechanical values and environment

Shock and vibration resistance	In acc. with EN 60947-5-3
Housing material	
	Housing Reinforced plastic, die-cast zinc nickel-plated, stainless steel
Weight	
	Net 3,1 kg
Ambient temperature	
	At $U_B = 24V$ DC -20 ... 55 °C
Degree of protection	IP54
Mechanical life	1 x 10 ⁶
	In case of use as door stop, and 1 Joule impact energy 0,1 x 10 ⁶
Installation orientation	Door hinge DIN right
Reaction time	
	Door position max.550 ms Switch-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 Switch-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 Switch-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.)
	Emergency stop / machine stop max.250 ms Switch-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.)
Switching frequency	0,25 Hz
Connection	
	Push-pull power (X1 (The document PROFINET "Cabling and Interconnection Technology" from the PNO aids in the correct selection of wiring.))
	Push-pull power (X2 (The document PROFINET "Cabling and Interconnection Technology" from the PNO aids in the correct selection of wiring.))
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 wiring.))
	Push-pull RJ45 (X4 (The document PROFINET "Cabling and Interconnection Technology" from the PNO aids in the correct selection of wiring.))
Guard locking principle	Open-circuit current principle
Locking force F_{Zh}	2000 N

Electrical connection ratings

Current consumption	max.500 mA
Rated insulation voltage U_i	75 V
Rated impulse withstand voltage U_{imp}	0,5 kV
Maximum feed-in current in the connection block	
	X1, X2 max.4000 mA
EMC protection requirements	In accordance with EN 61000-4 and EN 61326-3-1
Degree of contamination (external, according to EN 60947-1)	3
Connecting cable	
	Ethernet Profinet I/O cable, at least cat. 5e
Safety class	III
Transponder coding	Unicode

Power supply X1

Operating voltage DC	
	L1 24 V DC -15% ... 10% (Reverse polarity protected, regulated, residual ripple <5%, PELV))
Auxiliary voltage DC	
	L2 24 V DC -15% ... +10% (The auxiliary voltage is not required for the MGB system)

Fusing	
	external min.1 A Slow blow

Power supply X2

Operating voltage DC	
	L1 24 V DC -15% ... 10% (For looping through for connected devices)
Auxiliary voltage DC	
	L2 24 V DC -15% ... +10% (For looping through for connected devices)

Work area

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

Interface, bus

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

Other

Additional feature	Incl. cover set ID. No. 120344
Product version number	V3.30.10
Slide-in label	
	2 pcs. without marking
	Anforderung
	Quittieren

Reliability values according to EN ISO 13849-1

Monitoring of guard locking and the safety guard position	
Category	4
Performance Level	PL e
PFH _D	4.07 x 10 ⁻⁸ (Fixed failure rate without consideration of faults in wearing parts.)
Diagnostic Coverage (DC)	99
Emergency stop	
B10 _D	Emergency stop 0,13 x 10 ⁶
Emergency-stop evaluation	
Category	4
Performance Level	PL e
PFH _D	4.1 x 10 ⁻⁸
Safety Integrity Level	SIL 3 (EN 62061:2005)
Mission time	20

Handle module MGB-H-AA1A2-R-106049 (Order no. 106049)



Mechanical values and environment

Housing material	Housing Reinforced plastic, die-cast zinc nickel-plated, stainless steel
Weight	Net 1,00 kg
Ambient temperature	-20 ... 55 °C
Degree of protection	IP65
Installation orientation	Door hinge DIN right

Other

Additional feature	With mounting plate
Product version number	V3.0.0

Components



121848
Locking module MGB-L2B-PNA-R-121848

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- ▶ Unicode



106049
Handle module MGB-H-AA1A2-R-106049

- ▶ Intelligent bolt tongue
- ▶ Lockout mechanism
- ▶ Door handle
- ▶ Mounting plate

Accessories

Function expansion

Door handle for MGB-H...



110277
MGB-A-DOORHANDLE-S1-110277

- ▶ Aluminum, silver anodized
- ▶ For mounting on all MGB handle modules MGB-H up to V2.0.0

Door knob for MGB-H...



111460
MGB-A-DOORKNOB-S1-111460

- ▶ Aluminum, silver anodized
- ▶ For mounting on all MGB handle modules MGB-H... up to V2.0.0
- ▶ e.g. on sliding doors

Emergency unlocking for safety system MGB



112989
MGB-A-EMERGENCYRELEASE-112989

- ▶ Quick emergency release
- ▶ sealable

Escape release module MGB-E... pre-assembled on mounting plate



106051
MGB-E-A2-106051

- ▶ Escape release from the danger zone
- ▶ Mounted on mounting plate
- ▶ With red handle
- ▶ 115 mm long

Miscellaneous accessories

Adhesive labels

114529
MGB-A-PLATESET-NN01-114529

- ▶ Adhesive labels suitable for MGB evaluation modules, bus modules and control modules
- ▶ silver, blank
- ▶ Packaging unit = 10 pcs.

Lens set 5 colors



120344
AY-SET-LNS-0001-120344



163284
AY-SET-LNS-0003-163284

Lens set 6 colors



163276



120378
AY-SET-LNS-0002-120378

Lens set labeled



120377
AY-SET-LNS-SY01-120377



125359
AY-SET-LNS-SY02-125359



126158
AY-SET-LNS-SY03-126158



158307
AY-SET-LNS-SY04-158307



160049
AY-SET-LNS-SY05-160049

Spare parts

Evaluation module and bus module MGB-L2...-PN... (guard locking by solenoid force) with 3 controls, push-pull plug



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MGB-L2B-PNA-R-121848

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Handle module MGB-H...



106049
MGB-H-AA1A2-R-106049

- ▶ Intelligent bolt tongue
- ▶ Lockout mechanism
- ▶ Door handle
- ▶ Mounting plate

Contacts

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