

Technical data sheet

Safety sensor set

Part no.: 68052106

MLC100-14-600



For illustration purposes only

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- Accessories



Technical data

Basic data

Series	MLC 100
Device type	Set (transmitter and receiver)
Contains	4x BT-NC sliding block
Application	Finger protection

Functions

Functions	Automatic start/restart
	Range reduction
	Transmission channel changeover

Characteristic parameters

Type	4, IEC/EN 61496
SIL	3, IEC 61508
SILCL	3, IEC/EN 62061
Performance Level (PL)	e, EN ISO 13849-1
PFH _D	7.73E-09 per hour
Mission time T _M	20 years, EN ISO 13849-1
Category	4, EN ISO 13849

Protective field data

Resolution	14 mm
Protective field height	600 mm
Operating range	0 ... 4 m

Optical data

Synchronization	Optical between transmitter and receiver
Light source	LED, Infrared
Wavelength	940 nm
Transmitted-signal shape	Pulsed
LED group	1

Electrical data

Protective circuit	Overvoltage protection
	Short circuit protected

Performance data

Supply voltage U _B	24 V, DC, -20 ... 20 %
Fuse	2 A semi time-lag

Inputs

Number of digital switching inputs	1 Piece(s)
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Switching inputs

Type	Digital switching input
Switching voltage high, min.	18 V
Switching voltage low, max.	2.5 V
Switching voltage, typ.	22.5 V
Voltage type	DC

Outputs

Number of safety-related switching outputs (OSSDs)	2 Piece(s)
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Safety-related switching outputs

Type	Safety-related switching output OSSD
Switching voltage high, min.	18 V
Switching voltage low, max.	2.5 V
Switching voltage, typ.	22.5 V
Voltage type	DC
Current load, max.	380 mA
Load inductivity	2,000 µH
Load capacity	0.3 µF
Residual current, max.	0.2 mA
Residual current, typ.	0.002 mA
Voltage drop	1.5 V

Safety-related switching output 1

Switching element	Transistor, PNP
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Safety-related switching output 2

Switching element	Transistor, PNP
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Time behavior

Response time	14 ms
Restart delay time	100 ms

Connection

Number of connections	1 Piece(s)
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Connection 1

Function	Local interface
Type of connection	Connector
Thread size	M12
Material	Metal
No. of pins	5 -pin

Cable properties

Permissible conductor cross section, typ.	0.25 mm ²
Length of connection cable, max.	100 m
Permissible cable resistance to load, max.	200 Ω

Mechanical data

Dimension (W x H x L)	29 mm x 666 mm x 35.4 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic / PMMA
Material of end caps	Diecast zinc
Net weight	750 g
Housing color	Yellow, RAL 1021
Type of fastening	Groove mounting
	Mounting brackets
	Mounting on Device Column
	Swivel mount

Environmental data

Ambient temperature, operation	0 ... 55 °C
Ambient temperature, storage	-25 ... 70 °C
Relative humidity (non-condensing)	0 ... 95 %

Technical data

Certifications		Classification	
Degree of protection	IP 65	Customs tariff number	85365019
Protection class	III	ECLASS 5.1.4	27272704
Certifications	c CSA US	ECLASS 8.0	27272704
	c TÜV NRTL US	ECLASS 9.0	27272704
	TÜV Süd	ECLASS 10.0	27272704
Vibration resistance	50 m/s²	ECLASS 11.0	27272704
Shock resistance	100 m/s²	ECLASS 12.0	27272704
US patents	US 6,418,546 B	ECLASS 13.0	27272704
		ECLASS 14.0	27272704
		ETIM 5.0	EC002549
		ETIM 6.0	EC002549
		ETIM 7.0	EC002549
		ETIM 8.0	EC002549
		ETIM 9.0	EC002549

Electrical connection

Connection 1

Function	Local interface
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Accessories

Connection technology - Connection cables

	Part no.	Designation	Article	Description
	50133860	KD S-M12-5A-P1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5.000 mm Sheathing material: PUR

Accessories

Mounting technology - Swivel mounts

	Part no.	Designation	Article	Description
	429393	BT-2HF	Mounting bracket set	Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 360° Material: Metal, Plastic

Alignment aids

	Part no.	Designation	Article	Description
	520101	AC-ALM-M	Alignment aid	Housing material: Plastic

Note

	A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.
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