

FC1A-DZ2A1A

FlexChain

SWITCHING AUTOMATION LIGHT GRIDS





Ordering information

Туре	Part no.
FC1A-DZ2A1A	1091611

Included in delivery: M8 4POL-MALE BUS ABSCHLUSS STECKER (2)

Other models and accessories → www.sick.com/FlexChain



Detailed technical data

Features

Device version	FlexChain Host
Sensor principle	Sender/receiver Photoelectric retro-reflective sensor Photoelectric proximity sensor Light grid system
Configuration	USB connection for easy configuration of the FlexChain with SOPAS ET, the engineering tool from SICK
Configuration	Sensor parameterization Zone definition Measurement functions Logic function Interface parameterization Diagnostics functions
Included with delivery	1 × FlexChain Host 1 × Quick Start Guide 2 x FlexChain terminators (2119481)

Mechanics/electronics

Supply voltage $V_{\rm s}$	24 V ^{1) 2)}
Current consumption $I_{\text{max.}}$ (at maximum number of guests)	600 mA @ 24 V
Output current I _{max.}	100 mA
Output load capacitive	100 μF
Output load inductive	1H
Initialization time	<1s
Dimensions (W x H x D)	109.4 mm x 25 mm x 35 mm
Connection type	Cable with plug M12, 5-pin ^{3) 4)}
Housing material	Plastic (ABS)

^{1) . 20 %}

 $^{^{2)} \ \ \ ^{\}text{Reverse-polarity protected, operation in short-circuit protected network: max. 8 A.}$

³⁾ PLC communication control.

^{4) 2}x cables.

Synchronization	Cable
Enclosure rating	IP65, IP67
Circuit protection	U _V connections, reverse polarity protected Output Q short-circuit protected Interference pulse suppression
Protection class	III
Weight	Approx. 170 g

 $^{^{1)} \}pm 20 \%$

Performance

Response time ≤ 35 ms ¹⁾	
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 $^{^{1)}}$ Depending on system configuration.

Communication interface

IO-Link	•	√ , IO-Link V1.1
Data transr	mission rate 2	230,4 kbit/s (COM3)
	Cycle time	≥ 2.3 s
Process	data length 3	32 Byte
CANopen	•	/
Data transr	mission rate 5	50 kbit/s1 Mbit/s
Digital output	C	Q_1, Q_2
	Number 2	2
Digital input	I	In ₁
	Number 1	1

Ambient data

EMC	EN 61000-6-2, EN 61000-6-3
Ambient operating temperature	-25 °C +50 °C
Ambient storage temperature	-25 °C +70 °C
Vibration resistance	Sinusoidal oscillation 20-2,000 Hz 10 g, 3 h per axle
Shock load	Single shocks 30 g, 11 ms 6 per axle Continuous shocks 25 g, 6 ms, 1,000 per axis

Classifications

ECI@ss 5.0	27270910
ECI@ss 5.1.4	27270910
ECI@ss 6.0	27270910
ECI@ss 6.2	27270910
ECI@ss 7.0	27270910
ECI@ss 8.0	27270910
ECI@ss 8.1	27270910
ECI@ss 9.0	27270910
ECI@ss 10.0	27270910

 $^{^{2)}}$ Reverse-polarity protected, operation in short-circuit protected network: max. 8 A.

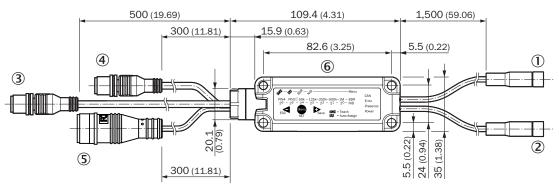
³⁾ PLC communication control.

⁴⁾ 2x cables.

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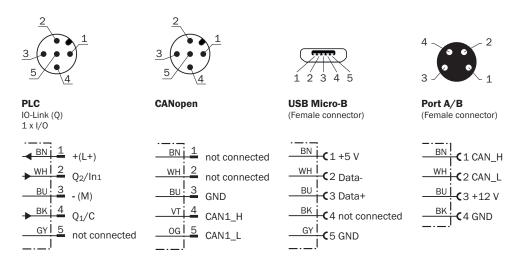
ECI@ss 11.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
UNSPSC 16.0901	39121528

Dimensional drawing (Dimensions in mm (inch))



- ① Port A, cable with female connector, M8, 4-pin
- ② Port B, cable with female connector, M8, 4-pin
- ③ PLC, cable with male connector, M12, 5-pin
- 4 CANopen, cable with male connector, M12, 5-pin
- ⑤ USB Micro-B, cable with female connector, M16, 5-pin
- 6 Control panel

Connection type and diagram



Recommended accessories

Other models and accessories → www.sick.com/FlexChain

	Brief description	Туре	Part no.		
SIG200					
164 64 64 64 64 64	SIG200-0A0412200	SIG200-0A0412200	1089794		
6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	SIG200-0A0G12200	SIG200-0A0G12200	1102605		
Plug connecto	rs and cables				
	Head A: female connector, M12, 5-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YF2A15- 100VB5XLEAX	2096241		
1	Head A: male connector, USB-A Head B: male connector, Micro-B Cable: USB 2.0, unshielded, 2 m	USB cable	6036106		
100	Head A: female connector, M12, 5-pin, straight, A-coded Head B: male connector, M12, 5-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m	YF2A15- 100UB5M2A15	2096011		
	Head A: male connector, M12, 5-pin, straight Cable: CANopen, unshielded	CAN male connector	6021167		

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

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