

Technical data sheet

Optical data transmission

Part no.: 50106024
DDLS 200/120.2-10-M12

Contents

- Technical data
- Electrical connection
- Operation and display
- Suitable transmitters
- Accessories



For illustration purposes only



Technical data

Basic data

Series	DDLS 200
--------	----------

Special version

Special version	Not influenced by reflective surfaces Operation of parallel light axes
-----------------	---

Optical data

Working range	200 ... 120,000 mm
Light source	LED
Transmission frequency	F2
Usable opening angle transmitter	1 °

Electrical data

Performance data

Supply voltage U_B	18 ... 30 V, DC
----------------------	-----------------

Inputs

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

Outputs

Number of digital switching outputs	1 Piece(s)
-------------------------------------	------------

Interface

Type	PROFIBUS DP, RS 485
------	---------------------

PROFIBUS DP

Transmission speed	0.0096 ... 1.5 Mbit/s
--------------------	-----------------------

Connection

Number of connections	3 Piece(s)
-----------------------	------------

Connection 1

Type of connection	Connector
Designation on device	BUS IN
Thread size	M12
Type	Male
No. of pins	5 -pin
Encoding	B-coded

Connection 2

Type of connection	Connector
Designation on device	Bus OUT
Thread size	M12
Type	Female
No. of pins	5 -pin
Encoding	B-coded

Connection 3

Type of connection	Connector
Designation on device	PWR
Thread size	M12
Type	Male
No. of pins	5 -pin
Encoding	A-coded

Mechanical data

Dimension (W x H x L)	89.25 mm x 196.5 mm x 111.8 mm
Housing material	Metal
Net weight	1,245 g

Operation and display

Type of display	Bar graph LED
-----------------	------------------

Environmental data

Ambient temperature, operation	-5 ... 50 °C
Ambient temperature, storage	-30 ... 70 °C

Certifications

Degree of protection	IP 65
Certifications	c UL US
Test procedure for EMC in accordance with standard	EN 61000-6-2:2005 EN 61000-6-4:2001
Test procedure for noise in accordance with standard	EN 60068-2-64
Test procedure for oscillation in accordance with standard	EN 60068-2-6
Test procedure for shock in accordance with standard	EN 60068-2-27 EN 60068-2-29

Classification

Customs tariff number	84718000
ECLASS 5.1.4	19039001
ECLASS 8.0	19179090
ECLASS 9.0	19179090
ECLASS 10.0	19170506
ECLASS 11.0	19170506
ECLASS 12.0	19170506
ECLASS 13.0	19170506
ECLASS 14.0	19170506
ETIM 5.0	EC000515
ETIM 6.0	EC000515
ETIM 7.0	EC000515
ETIM 8.0	EC000515
ETIM 9.0	EC000515

Electrical connection

Connection 1		BUS IN
Function	BUS IN	
Type of connection	Connector	
Thread size	M12	
Type	Male	
Material	Metal	
No. of pins	5 -pin	
Encoding	B-coded	

Pin	Pin assignment
1	n.c.
2	A (N)
3	GND
4	B (P)
5	n.c.

Connection 2		Bus OUT
Function	BUS OUT	
Type of connection	Connector	
Thread size	M12	
Type	Female	
Material	Metal	
No. of pins	5 -pin	
Encoding	B-coded	

Pin	Pin assignment
1	VCC
2	A (N)
3	GND
4	B (P)
5	n.c.

Connection 3		PWR
Function	Voltage supply	
Type of connection	Connector	
Thread size	M12	
Type	Male	
Material	Metal	
No. of pins	5 -pin	
Encoding	A-coded	

Pin	Pin assignment
1	VIN
2	OUT WARN
3	GND
4	IN 1
5	FE

Operation and display

LED	Display	Meaning
1	Green	Operating mode
2	Green	PWR

Operation and display

LED	Display	Meaning
3	Green	TRANSMIT DATA (Tx)
4	Green	RECEIVE DATA (Rx)

Suitable transmitters

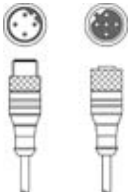
	Part no.	Designation	Article	Description
	50106023	DDLS 200/120.1-10-M12	Optical data transmission	Special version: Operation of parallel light axes, Not influenced by reflective surfaces Working range: 200 ... 120,000 mm Transmission frequency: F1 Interface: PROFIBUS DP, RS 485 Connection: Connector, M12

Accessories

Connection technology - Connection cables

	Part no.	Designation	Article	Description
	50135243	KD PB-M12-4A-P3-050	Connection cable	Suitable for interface: PROFIBUS DP Connection 1: Connector, M12, Axial, Female, B-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5.000 mm Sheathing material: PUR
	50132079	KD U-M12-5A-V1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC
	50135248	KS PB-M12-4A-P3-050	Connection cable	Suitable for interface: PROFIBUS DP Connection 1: Connector, M12, Axial, Male, B-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5.000 mm Sheathing material: PUR

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50135254	KDS PB-M12-4A-M12-4A-P3-050	Interconnection cable	Suitable for interface: PROFIBUS DP Connection 1: Connector, M12, Axial, Female, B-coded, 5 -pin Connection 2: Connector, M12, Axial, Male, B-coded, 4 -pin Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR

Accessories

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