

Technical data sheet Optical data transmission

Part no.: 50102494

DDLS 200/80.1-10-W-H

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- Technical data
- Electrical connection
- Operation and display
- Suitable receivers



For illustration purposes only



Technical data

Basic data

Series	DDLS 200
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Special version

Special version	Heating
	Not influenced by reflective surfaces
	Operation of parallel light axes
	Wide angle version

Optical data

Working range	200 ... 80,000 mm
Light source	LED
Transmission frequency	F1
Opening angle	2 °

Electrical data

Performance data

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

Number of digital switching inputs	1 Piece(s)
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Outputs

Number of digital switching outputs	1 Piece(s)
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Interface

Type	PROFIBUS DP, RS 485
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PROFIBUS DP

Transmission speed	0.0096 ... 1.5 Mbit/s
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Connection

Number of connections	3 Piece(s)
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Connection 1

Type of connection	Terminal
Cable gland	M16
No. of pins	8 -pin

Connection 2

Type of connection	Terminal
Cable gland	M16
No. of pins	6 -pin

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

Certifications

Degree of protection	IP 65
Approvals	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
ECLASS 15.0	19170506
ECLASS 16.0	19170506
ETIM 5.0	EC000515
ETIM 6.0	EC000515
ETIM 7.0	EC000515
ETIM 8.0	EC000515
ETIM 9.0	EC000515
ETIM 10.0	EC000515
UNSPSC 26.08	43201544

Electrical connection

Connection 1

Function	Voltage supply
Type of connection	Terminal
Cable gland	M16
No. of pins	8 -pin

Electrical connection

Terminal	Assignment
1	OUT WARN
2	PE
3	GND
4	VIN
5	IN 1
6	PE
7	GND
8	VIN

Connection 2


Function	Data interface
Type of connection	Terminal
Cable gland	M16
No. of pins	6 -pin

Terminal	Assignment
1	COM
2	A (N)
3	B (P)
4	COM
5	A (N)
6	B (P)

Operation and display

LED	Display	Meaning
1	Green	Operating mode
2	Green	PWR
3	Green	TRANSMIT DATA (Tx)
4	Green	RECEIVE DATA (Rx)

Suitable receivers

	Part no.	Designation	Operating range Operating range limit	Description
	50102495	DDLS 200/80.2-10-W-H		Special version: Heating, Not influenced by reflective surfaces, Operation of parallel light axes, Wide angle version Working range: 200 ... 80,000 mm Transmission frequency: F2 Interface: PROFIBUS DP, RS 485 Connection: Terminal, M16