

Technical data sheet

Fiber optic amplifier

Part no.: 50154355
LV443B/4

Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Operation and display
- Part number code



For illustration purposes only



Technical data

Basic data

Series	443B
Suitable for	Plastic fiber optics

Special version

Special version	Large operating range
	Time function

Optical data

Light source	4 element LED, Red
Wavelength	625 nm
Transmitted-signal shape	Pulsed

Electrical data

Protective circuit	Polarity reversal protection
	Short circuit protected
Fiber optic connection	Clamp, 2 x Ø 2.4mm
Fiber optic connection depth	7 ... 9 mm

Performance data

Supply voltage U_B	12 ... 24 V, DC
Residual ripple	0 ... 10 %, From U_B
Open-circuit current	0 ... 15 mA

Outputs

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

Type	Digital switching output
Voltage type	DC
Switching current, max.	100 mA
Switching voltage	high: $\geq(U_B - 2.5V)$
	low: $\leq 2.5 V$

Switching output 1

Switching element	Transistor, PNP
Switching principle	Light/dark switchable

Time behavior

Switch-on/-off delay	Switch-on/-off delay
Readiness delay	300 ms
Wiping contact	Wiping contact

Mode High Speed (HS)

Switching frequency	2,000 Hz
Response Time	250 μ s

Mode Standard (STD)

Switching frequency	500 Hz
Response Time	1,000 μ s

Connection

Number of connections	1 Piece(s)
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Connection 1

Function	Signal IN
	Signal OUT
	Voltage supply
Type of connection	Cable
Cable length	2,000 mm
Cable color	Black
Number of conductors	3 -wire
Wire cross section	0.14 mm ²

Mechanical data

Design	Cubic
Dimension (W x H x L)	10 mm x 34 mm x 72 mm
Housing material	Plastic
Plastic housing	ABS
Net weight	45 g
Housing color	Black
	Red
Type of fastening	Via optional mounting device

Operation and display

Type of display	LED
Number of LEDs	1 Piece(s)
Operational controls	Push button
Function of the operational control	Light/dark switching
	Sensitivity adjustment
	Switching range adjustment

Environmental data

Ambient temperature, operation	-10 ... 55 °C
Ambient temperature, storage	-25 ... 75 °C

Certifications

Degree of protection	IP 50
Standards applied	IEC 60947-5-2

Classification

Customs tariff number	85423390
ECLASS 5.1.4	27270905
ECLASS 8.0	27270905
ECLASS 9.0	27270905
ECLASS 10.0	27270905
ECLASS 11.0	27270905
ECLASS 12.0	27270905
ECLASS 13.0	27270905
ECLASS 14.0	27270905
ECLASS 15.0	27270905
ECLASS 16.0	27270905
ETIM 5.0	EC002651
ETIM 6.0	EC002651
ETIM 7.0	EC002651
ETIM 8.0	EC002651
ETIM 9.0	EC002651
ETIM 10.0	EC002651

All dimensions in millimeters

Part number code

CC	Device type n/a: Inclusive (High Speed, Long Range) XR: Long Range version
DD	Switching output / function / OUT = pin 4 (Black wire) 4: PNP transistor output, light switching 2: NPN transistor output, light switching X: pin not used
EEEEEE	Electrical connection n/a: cable, standard length 2000 mm, 3-wire 100-M8: cable, length 100 mm with M8 connector, 4-pin, axial (plug)

Note	
	A list with all available device types can be found on the Leuze website at www.leuze.com .