

DIOLINE local-bus expansion module with 6 digital outputs, DC 110 V / 2 A



Identification	Type	DL-LB-DO
	Part-No.	746424
Use/Area of application		
Description	DIOLINE local-bus expansion module with 6 digital outputs (3 potentials) for use on rail vehicles	
Bus interface		
Bus system	Lütze bus	
Module type	Slave I/O module	
Data capacity in process image	1 byte inputs, 2 byte outputs	
Transmission medium	Flat conductor, 10-pin	
Connection type, incoming bus	Socket connector IDE, 10-pin	
Connection type, continuing bus	Plug connector IDE, 10-pin	
Electronic module supply		
Voltage range, incl. ripple	DC 16.8-30 V	
Ripple	max. 10 %	
Rated current (at U_N)	nom. 105 m A	
Outputs		
Number:	6 (1-2 Potential A, 3-4 Potential B, 5-6 Potential C)	
Output voltage	DC 24...110 V (16.8...137.5 V)	
Output current	max. 2 A per canal	
Channel type	N-MOS FET	
Protective measure	Short-circuit-proof Overtemperature protection	
External fuse	W6	
Switch-on delay	nom. 7 ms The times each contain the CAN processing time and may deviate in other bus systems depending on the update rate.	
Switch-off delay	nom. 8 ms The times each contain the CAN processing time and may deviate in other bus systems depending on the update rate.	

DIOLINE local-bus expansion module with 6 digital outputs, DC 110 V / 2 A

Leakage current	10 µA maximum
Connection	X1, X2 Cage clamp clamp-type terminal, each 1x10-pin

Diagnosics

Diagnosis indications	Internal bus active (LB _A), LED green Internal bus error (LB _{ERR}), LED red Outputs 6 LEDs orange
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Electrical isolation

Isolating voltage	AC 1.5 kV inputs and electronics AC 1.5 kV between the output groups
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Technical data

Dimensions (w x h x d)	57.0x141.5x48.0 mm
Weight (kg/piece)	0.230 (kg/piece)
Protection class	IP 20
Field instalation	DIN rail mounting
Installation postition	top: 5 mm (for assembly) bottom: 5 mm (for assembly) side: 0 mm
Operating temperature	-40 °C to +70 °C (+85 °C for 10 min) corresponds to EN 50155 category Tx
Storage temperature range min/max	-40 °C to +85 °C

PE connection

Connection tab	6.3 mm x 0.8 mm
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Standards

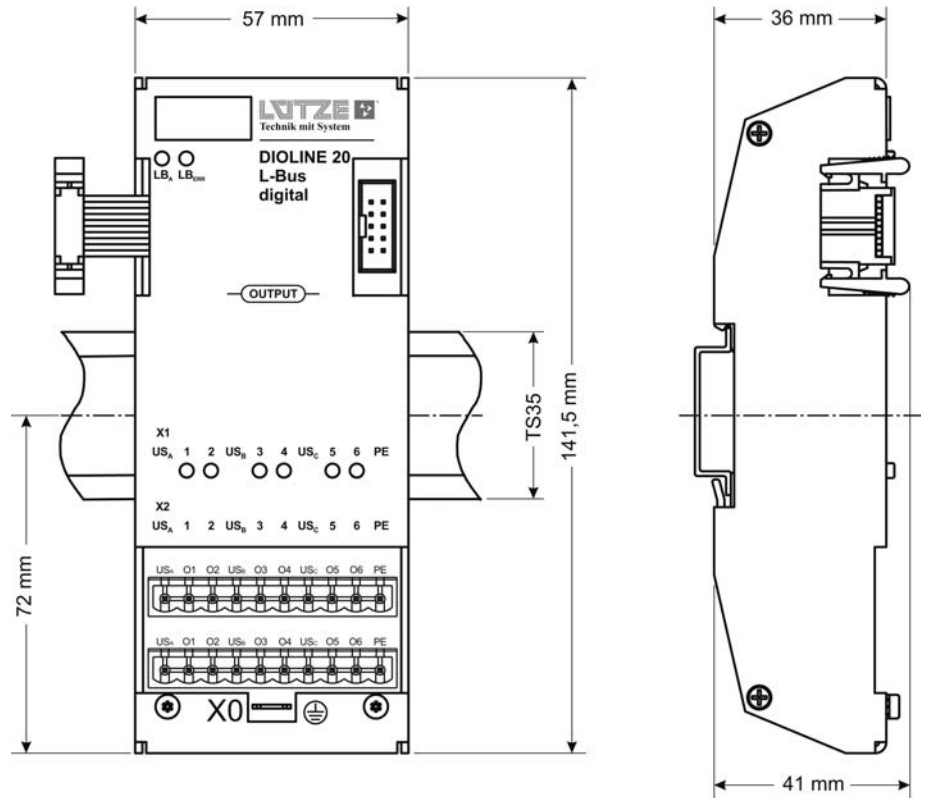
Electronic equipment on railway vehicles: EN50155:2007-07
Electromagnetic compatibility: EN50121-3-2: 2006-07
Insulation coordination: EN50124-1:2001-03
Vibrations and shocks: EN61373:1999-04

Accessories

EMC - screen clamp set, article number 746894
Not contained in scope of delivery
Screwless terminal set, article number 745865
Contained in scope of delivery

DIOLINE local-bus expansion module with 6 digital outputs, DC 110 V / 2 A

Dimensions



DIOLINE local-bus expansion module with 6 digital outputs, DC 110 V / 0,6 A



Identification	Type	DL-LB-DO
	Part-No.	746414
Use/Area of application		
Description	DIOLINE local-bus expansion module with 6 digital outputs (3 potentials) for use on rail vehicles. (redundancy-compatible)	
Bus interface		
Bus system	Lütze bus	
Module type	Slave I/O module	
Data capacity in process image	1 byte inputs, 2 byte outputs	
Transmission medium	Flat conductor, 10-pin	
Connection type, incoming bus	Socket connector IDE, 10-pin	
Connection type, continuing bus	Plug connector IDE, 10-pin	
Electronic module supply		
Voltage range, incl. ripple	DC 16.8-30 V	
Ripple	max. 10 %	
Rated current (at U_N)	nom. 105 m A	
Outputs		
Number:	6 (1-2 Potential A, 3-4 Potential B, 5-6 Potential C)	
Output voltage	DC 24...110 V (16.8...137.5 V) protected against reverse polarity	
Output current	max. 0.6 A per canal	
Channel type	N-MOS FET	
Protective measure	Protected against polarity reversal Short-circuit-proof Overtemperature protection Suitable for redundancy operation (diode-decoupled)	
External fuse	W4	
Switch-on delay	nom. 7 ms The times each contain the CAN processing time and may deviate in other bus systems depending on the update rate.	

DIOLINE local-bus expansion module with 6 digital outputs, DC 110 V / 0,6 A

Switch-off delay	nom. 8 ms The times each contain the CAN processing time and may deviate in other bus systems depending on the update rate.
Leakage current	2 µA typical, 10 µA maximum
Connection	X1, X2 Cage clamp clamp-type terminal, each 1x10-pin

Diagnostics

Diagnosis indications	Internal bus active (LB _A), LED green Internal bus error (LB _{ERR}), LED red Outputs 6 LEDs orange
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Electrical isolation

Isolating voltage	AC 1.5 kV inputs and electronics AC 1.5 kV between the output groups
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Technical data

Dimensions (w x h x d)	57.0x141.5x48.0 mm
Weight (kg/piece)	0.230 (kg/piece)
Protection class	IP 20
Field instalation	DIN rail mounting
Installation postition	top: 5 mm (for assembly) bottom: 5 mm (for assembly) side: 0 mm
Operating temperature	-40 °C to +70 °C (+85 °C for 10 min) corresponds to EN 50155 category Tx
Storage temperature range min/max	-40 °C to +85 °C

PE connection

Connection tab	6.3 mm x 0.8 mm
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Standards

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Dimensions

