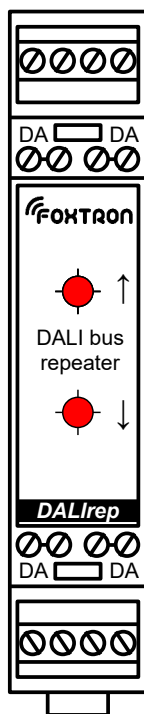


# User manual

version 1.0

## DALIrep



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Extension of the DALI bus beyond 300 m

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two-way data forwarding

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power supply from DALI buses

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signaling ongoing communication

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galvanic separation of DALI buses

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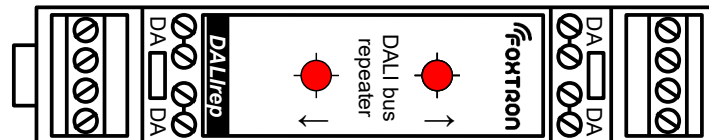
DIN rail mounting (1 module)

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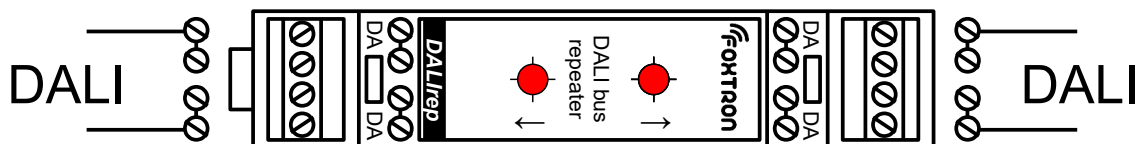
DALIrep (repeater) ensures bidirectional data transfer between two DALI buses. The buses are galvanically isolated, which allows the communication distance to be extended beyond the maximum length of 300 m of a single DALI bus. The address space of the buses is identical, so the number of devices is the same as on a single bus. Each bus must have its own DALI power supply (DALIpwr, DALIpwrLite), which means that devices with twice the power consumption can be powered on one data bus. Both buses are equivalent.

Technical Specifications		
number of DALI buses	2	
consumption (from DALI buses)	4	mA
wire cross-section	0,08 – 1,5	mm <sup>2</sup>
degree of protection	IP20	
galvanic separation DALI	5	kV
operating ambient temperature	0 ÷ 50	°C
storage temperature	-10 ÷ 70	°C
weight	50	g

Signaling	
←	A short flash when data is forwarded in the specified direction.
→	A longer flash when power is connected to the bus.



### Clamps connection



Clamps description		conductor preparation
DA	DALI bus connection (polarity does not matter) One DALI bus on each side. The buses are equivalent. The terminals are doubled to allow for looping.	6mm 

Function

	DALI (one side)	DALI (the other side)
bus length	300m independently of the second bus, so elements can be 600m apart on two buses	300m independently of the first bus, so elements can be 600m apart on two buses
address space	shared address space 64 DALI ballasts (lights, relays) 64 DALI controllers (buttons, sensors)	
DALI device power supply	up to 250mA (according to DALI source) independent of the second bus	up to 250mA (according to DALI source) independent of the first bus

DALI buses are interchangeable on DALIrep; the connection direction is not important.

Dimensions (in mm)

