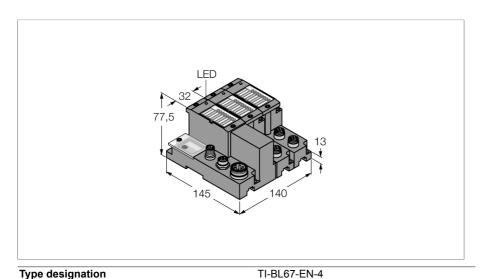
# **Multiprotocol Set in IP67** TI-BL67-EN-4



Ident no.	7030611 4 140 x 145 x 77.5 mm		
Number of channels			
Dimensions (W x L x H)			
Supply voltage	24 VDC		
max. system supply current I <sub>mb (SV)</sub>	1.3, A		
Max. sensor supply I <sub>sens</sub>	4 A electronically limited current supply		
	electronically limited current supply		
max. load current I.	10 A		
Admissible range	1830 VDC		
Service interface	Mini USB, Ethernet		
Voltage supply connection	7/8", 5-pin		
Transmission rate	115 2 khns		

Transmission rate	115.2 kbps
Electrical isolation	isolation of electronics and field level via opto couplers
Output connectivity	M12

Temperature	derating

Sensor supply

> 55 °C Circulating air (Ventilation) > 55 °C Steady ambient air Relative humidity

Vibration test

Extended vibration resistance - up to 5 g (at 10 to 150 Hz)

- up to 20 g (at 10 up to 150 Hz)

Shock test Drop and topple

Electromagnetic compatibility Protection class

Included in delivery

&#x0020:

no limitation

Isens < 3A. Imb < 1A

5...95 % (internal), level RH-2, no condensation (when stored at 45 °C)

0.5 A per channel, short-circuit proof

Acc. to EN 61131

VN 02-00 and higher

for mounting on DIN rail no drilling according

to EN 60715, with end bracket

for mounting on base plate or machinery Therefore every second module has to be mounted with two screws each.

Acc. to IEC 60068-2-27

acc. to IEC 68-2-31 and free fall to IEC

68-2-32

**IP67** 

Acc. to EN 61131-2

1 x end plate BL67

# Connection of up to 4 read/write heads via BL ident M12 extension cables

Mixed operation of HF and UHF read/ write heads

## **Power Supply**



# Wiring Diagram



#### **Functional principle**

BL67 gateways are the head component of a BL67 station. They are designed to connect the modular fieldbus nodes to the higher-level fieldbus (PROFIBUS-DP, DeviceNet, CANopen, Ethernet Modbus TCP, PROFINET, EtherCAT or EtherNet/IP).

All BL67 electronic modules communicate via the internal module bus, the data of which is transferred to the fieldbus via the gateway. All I/O modules can thus be configured independently of the bus system.

The pin resp. signal assignment results from the combination with an electronic module. You find the pin configuration and the wiring diagrams on the data sheet of the corresponding electronic module.

BL67 base modules are connected to the right of the gateway, using two screws for each module. A DIN rail is not required. This way, a compact and stable unit is built. The unit can now be mounted on a DIN rail or directly on the machine.

The field devices are connected to the base modules which are available with different connection technology (M8, M12, M23 and 7/8").

#### Note

Further technical data like temperature range are determined by the electronic modules and can be found on the data sheets.

# **Multiprotocol Set in IP67** TI-BL67-EN-4



BL67 electronic modules are plugged on the purely passive base modules which in turn are connected to the field devices. The separation of connection level and electronics simplifies maintenance considerably. Flexibility is enhanced because the user can choose between base modules with different connection technologies.

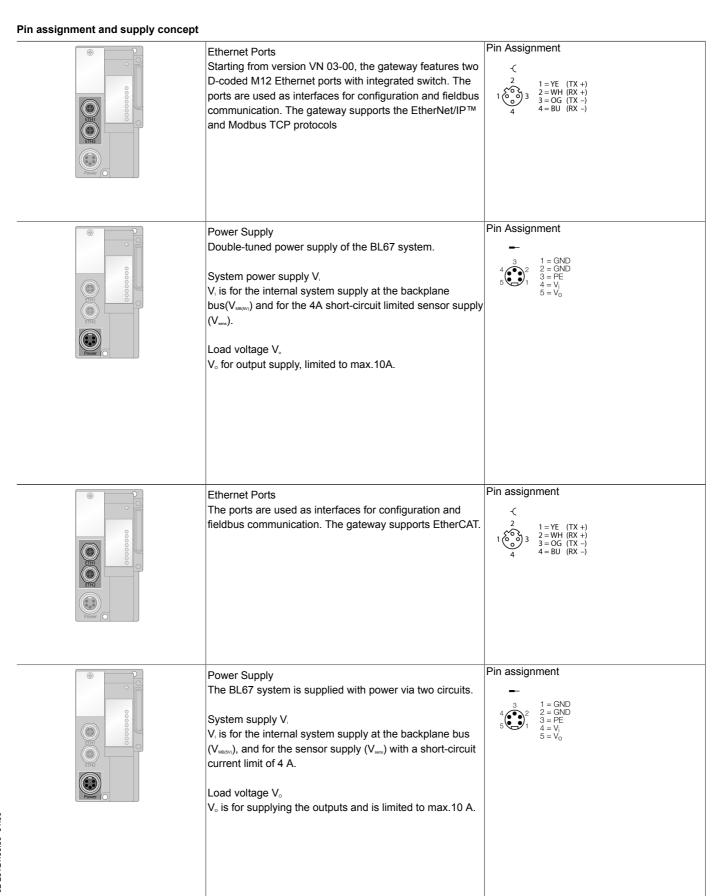
The electronic modules are completely independent of the higher level fieldbus through the use of gateways.

BL67 gateways are the head component of a BL67 station. They are designed to connect the modular fieldbus nodes to the higher-level fieldbus (PROFIBUS-DP, DeviceNet, CANopen, Ethernet Modbus TCP, PROFINET, EtherCAT or EtherNet/IP).

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# Multiprotocol Set in IP67 TI-BL67-EN-4

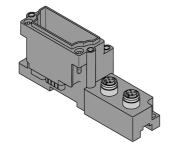




# Multiprotocol Set in IP67 TI-BL67-EN-4

# Compatible base modules

# Dimension drawing



# Type

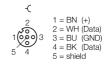
BL67-B-2M12 6827186 2 x M12, 5-pole, female, a-coded

# Pin configuration

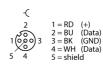
.../S2500 Connectors



## ../S2501 Connectors



## Connectors .../S2503





# Multiprotocol Set in IP67 TI-BL67-EN-4

# LED display

LED	Color	Status	Meaning
D RI		OFF	No error message or diagnostics active.
	RED	ON	Failure of module bus communication. Check if more than 2
			adjacent electronic modules are pulled. Relevant modules
			are located between gateway and this module.
	RED	FLASHING (0.5 Hz)	Upcoming module diagnostics
RW0 / RW1		OFF	No tag, no active diagnostics
	GREEN	ON	Tag available
	GREEN	FLASHING (2 Hz)	Data exchange with tag enabled
	RED	ON	Read/write head error
	RED	FLASHING (2 Hz)	Short-circuit in the supply line of read/write head