

Data Sheet

BMC

BERNARD Mobility Controller



The **BMC** connects up to four BMA TLC devices to the controller of a traffic signal system. It supplies the connected BMAs with power and transmits traffic-dependent requests as potential-free signals. Galvanic isolation protects the traffic signal controller from electrical interference. Central management of the BMA TLC is handled in the **Control Center**.

Technical Data

General

Function	Interface between BMA TLC and traffic signal controller; power supply to connected BMAs
Number of BMA TLC	1–4
Mounting	DIN rail (35 mm)

Outputs

Switching Outputs	12 potential-free (galvanically isolated) switches with screw terminal $I_{max} = 700 \text{ mA}$, $U_{max} = 60 \text{ VDC}$
Diagnostic Outputs	Up to 4 potential-free switches, freely configurable $I_{max} = 700 \text{ mA}$, $U_{max} = 60 \text{ VDC}$

Electrical Ratings

Input Voltage	24–30 V DC
Power Consumption	$\leq 2 \text{ W}$ (BMC) + $\leq 25 \text{ W}$ per connected BMA TLC

Environmental Conditions

Operating Temperature	–20 °C to +60 °C
Humidity	$\leq 95 \%$ (at 25 °C)

Standards & Certifications

CE certified to	EMC 2014/30/EU – Road traffic signal systems EN 50293
EMC	Compliant with EN 55032 (CISPR 32) Class B

Dimensions and Weight

Dimensions	108 × 115 × 61 mm (L × W × H)
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Weight

< 1 kg

Connection Cable BMA TLC V3

Cable Cross-Section	Max. Cable Length*
0.5 mm ²	100 m
0.75 mm ²	150 m
1.5 mm ²	300 m

*) At 30 V input voltage; 2-core cable

Scope of Delivery

- 1 × BMC
- 1 × Power Supply (Meanwell MDR-100-24)
- 1 × Connection Cable 1 m (power supply to BMC)
- 1 × Cable harness for 12 contacts

Not included: connection cables to BMA TLC or installation tools.

Dimension Drawing

