BERNARD GRUPPE

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 Imax = 700 mA, Umax = 60 VDC
Diagnostic Outputs	Up to 4 potential-free switches, freely configurable Imax = 700 mA, Umax = 60 VDC
Electrical Ratings	
Input Voltage	**24–30 V DC**
Power Consumption	**≤ 2 W** (BMC) + **≤ 25 W** per connected BMA TLC
Environmental Conditions	
Operating Temperature	**–20 °C to +60 °C**
Humidity	≤ 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)

Weight	< 1 kg

Connection Cable BMA TLC V3

Cable Cross-Section	Max. Cable Length*
0.5 mm²	100 m
0.75 mm²	150 m
1.5 mm²	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



