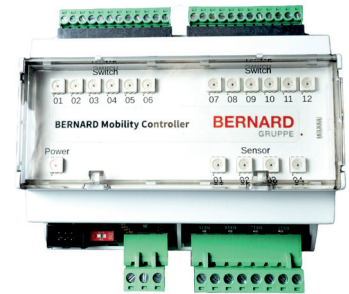


BERNARD Mobility Controller



Data sheet

Technical Data	
Function	Connection between BMA and traffic light system
Number of BMA	1- 4 BMA (zwo BMC cascadable)
Outputs	12 potential-free (galvanically isolated) switches with screw connection $I_{max} = 700 \text{ mA}$, $U_{max} = 60 \text{ VDC}$
Diagnostic outputs	Freely configurable, up to 4 potential-free (galvanically isolated) switches with screw connection $I_{max} = 700 \text{ mA}$, $U_{max} = 60 \text{ VDC}$
Assembly	DIN rail
BMA connecting line	BMA v3: 2 cores, longitudinal cross-section and maximum cable length at 30 V input voltage: 1.5 mm^2 : 300 m 0.75 mm^2 :150 m 0.5 mm^2 : 100 m BMA v2: 2 cores, longitudinal cross-section $\leq 0.75 \text{ mm}^2$ (AWG18), cable length up to 120 m at 30 V input voltage
Connection parameters	
Input voltage	24 - 30 VDC
Power consumption	$\leq 2 \text{ W}$ plus 25 W per connected BMA
Environmental conditions	
Temperature range	$-20 \text{ }^\circ\text{C}$ bis $+60 \text{ }^\circ\text{C}$ Air humidity $\leq 95 \%$ (at $25 \text{ }^\circ\text{C}$)
Safety standards	
CE tested according to	EMC 2014/30/EU Road traffic signalling equipment electromagnetic compatibility EN 50293
Conducted interference emission and interference radiation	Compliant with EN55032 (CISPR32) class B
Dimensions	
Height x width x depth	60 x 107(214) x 90 mm Weight < 1 kg
Version	2.2 (Rev. 07/2026)