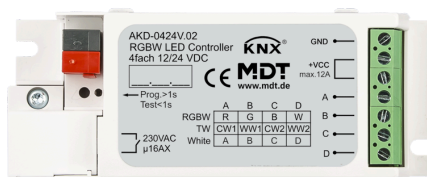


AKD-0424V.02

KNX LED Controller 4-channel, 3/6 A, RGBW



Product description:

The MDT LED controller AKD can be used to dim typical LED lamps with 12 V and 24 V constant voltage (CV). Whether single-colour LED spot, tunable white or RGB(W) strips, the outputs of the LED controllers are individually adjustable. The comprehensive setting options of the application enable customised lighting.

Product functions:

- **Comprehensive application**
- Absolute and relatives dimming for HSV colours and RGB
- **Tunable White colour temperature control**
- Selectable dimming curve, and PWM Frequency up to 1000 Hz
- Individual and predefined sequences (e.g. TV simulator)
- **Selectable load distribution: 4 channels each 3 A or 1 channel 5.25 A and 3 channels each 2.25 A**
- **Parallel operation of two channels with 6 A**
- **Operation modes: 4 x white, RGB, RGBW or 2 x Tunable White**
- **Automatic colour temperature control Dim2Warm**
- **Dynamic daylight control HCL (Human Centric Lighting)**
- **Automatic time dependent dimming**
- **Day/Night function**
- Over current- and temperature monitoring
- **Intelligent 16 A C-load relay output to switch the external LED Power supply**
- Dimensions (H x W x D): 25 x 46 x 113 mm

Technical data:

Device	Device type	AKD LED Controller
	Article Number	AKD-0424V.02
	EAN / GTIN	4251916130091
	Dimensions (H x W x D)	46 x 113 x 25 mm
	Weight, gross (incl. packaging)	0.094 kg
	Protection classification	IP20
	Installation type	Surface mounted
	Installation position	any
	Weight, net	0.079 kg
Performance data	Nominal voltage U_n	12 ... 24 V DC + 10 %
	Auxiliary relay	230 V AC / 50 Hz / 140 μ F / 16 A
	Mech. switching frequency	1.000.000
	Power dissipation of the device, typical	\leq 4 W
Outputs	Number of outputs	4
	Dimming method	PWM 600/1000 Hz
Currents	Current per channel	3 A
	Current per channel with load sharing	1 channel 5.25 A + 3 channels 2.25 A each
	Current with parallel operation of channel A+B (C +D)	6 A
	Permissible total current	12 A
KNX	Nominal voltage KNX	30 V DC SELV
	Voltage range KNX	21 ... 31 V DC SELV
	Typical power consumption KNX bus	< 0,3 W
	KNX Medium	TP-256 with long frame support
	KNX Application	as of ETS 4
Environmental conditions	Ambient operating temperature	0 ... 45 °C
	Storage	-20 ... +55 °C
	Humidity	< 95 %
	Condensation permissible	No
Connections	Connection type	Screw terminal with slotted head
	Conductor cross section 1 x	0,5 ... 2,5 mm ²
	Screw terminal tightening torque	0.5 Nm
	KNX connection type	KNX terminal
	KNX cable cross section	0.6 ... 0.8 mm, solid conductor

