ABB i-bus® EIB / KNX

Light Controller Module, 1-fold, 6A
LR/M 1.6.1, 2CDG 110 011 R0011

The Light Controller Module is operated in a module slot of the Room Controller Basis Device. It dims electronic ballasts with a 1...10 V interface and enables constant lighting control e.g. in offices.

The device has an output for dimming a group of luminaires. A relay contact is used for switching the lighting circuit on/off. For constant lighting control, the device measures the current brightness (luminance) via a light sensor input.

The device operates passively i.e. its 1...10 V output behaves like a controlled resistor. The connected electronic ballast supplies the control voltage.

Both the incoming supply and the internal voltage are supplied via the Room Controller Basis Device. Contact is automatically established when the modules are snapped in place.

Technical Data

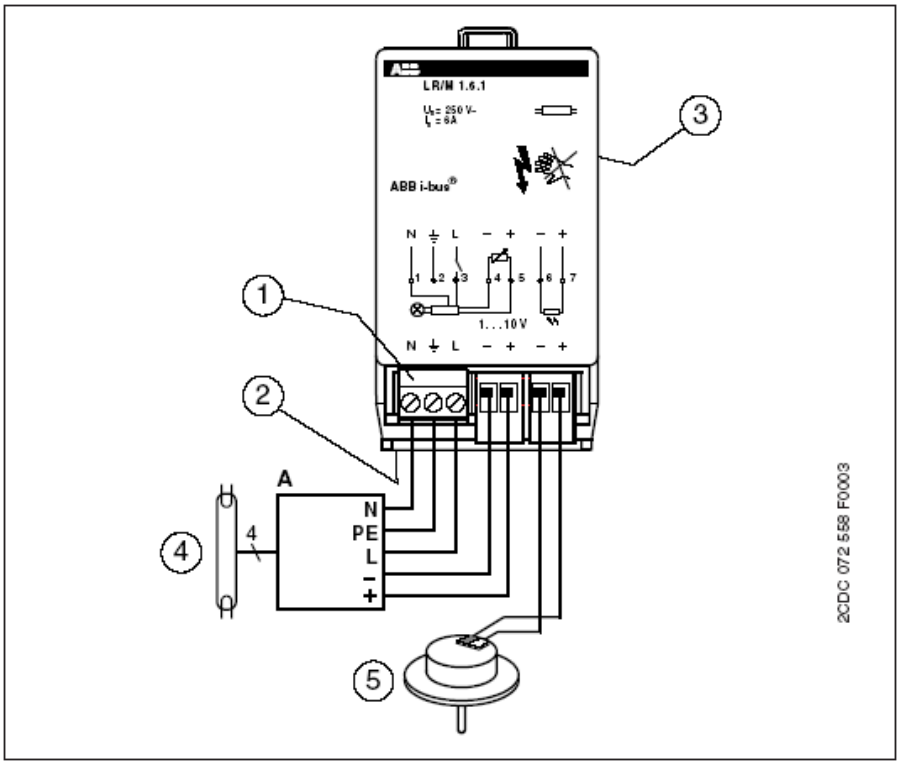
Power supply / incoming supply	– Operating voltage	made available via the Room Controller Basis Device, contact made via contact system on base of module
	– Incoming supply	0 ... 264 V AC, contact established via contact surfaces at the front
Outputs	– 1 load circuit	Relay outputs Switching current: 10 A/AC1 Continuous current: 6 A Max. capacity: 35 µF Max. inrush peak current: 200 A / 150 µs
	– 1 control output	1...10 V DC (passive) Control current: < 30 mA
Inputs	– 1 light sensor input	For light sensor LF/U 1.1 Lighting control in range 200...1200 lx (typ.)
Connections	– Load circuits	3-pole, plug-in screw terminal
	– Control outputs	2-pole, plug-in screw terminal Max. cable length: 100 m
	– Light sensor input	2-pole, plug-in screw terminal Max. cable length: 100 m
	– Wire ranges	0.2…2.5 mm^2 finely stranded 0.2…4.0 mm^2 single-core
Ambient temperature range	– Operation	- 5 °C ... 45 °C
	– Storage	-25 °C ... 55 °C
	– Transport	-25 °C ... 70 °C
Design	– Type of installation	For snapping into the Room Controller Basis Device
	– Housing, colour	Plastic housing, anthracite, halogen-free
	– Housing dimensions (WxHxD)	49 x 42 x 93 mm
	– Weight	0.08 kg
CE norm	– in accordance with the EMC guideline and the low voltage guideline	

Application program	Number of communication objects	Max. number of group addresses	Max. number of associations
Room Controller modular, 8f/1	246	254	255

ABB i-bus® EIB / KNX

Light Controller Module, 1-fold, 6A
LR/M 1.6.1, 2CDG 110 011 R0011

Circuit diagram



1 Outputs (plug in screw terminals)
2 Power inputs (mating surface)
3 Control lines (underside of the device)
4 Fluorescent lamp connected to a dimmable electronic ballast
5 Light Sensor

Note

The programming is carried out with ETS from version ETS2 V1.2a or higher.

For programming the device with the help of the ETS3, the relevant VD3 file must be applied.

Detailed information about the installation, programming and application can be found in the product manual for the Dim Actuator Modules SD/M, LR/M and UD/M. This manual can be downloaded under www.abb.de/eib