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Technical Datasheet

KNX MultiController DALI

Art.no.: 541xx

KNX MultiController DALI

- 12 EVGs and 4 DALI groups / broadcast
- DALI emergency functions
- Two mechanical relay outputs 230V/16A
- Two thermo relay outputs 230V/10W
- Two binary inputs
- One sensor terminal (RJ45)
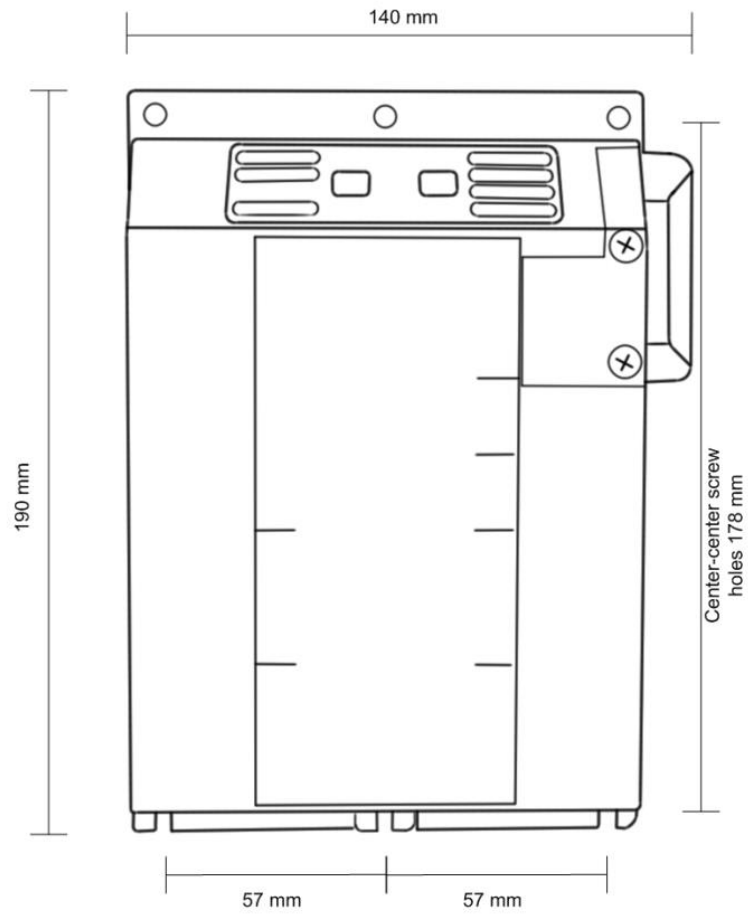- Temperature controller
- Constant light controller
- Logic

KNX MultiController DALI is smart, compact and installation friendly, fitted with WAGO Winsta MIDI or Wieland Gesis GST plugs. With an installation height of only 40 mm, the KNX MultiController is perfect for mounting in ceiling and for below-floor installations. Easy access to front panel for manual operation and testing.

Application program featuring complete thermostat controller for heating and cooling, KNX-DALI gateway with groups and emergency function, relay outputs with logic, timer and PWM, potential free binary inputs for manual operation of lighting or shutter/blinds. Terminals for local sensors make it possible to combine KNX MultiController with sensor 520xx to get 4-channel movement control, brightness sensing, constant lighting control and IR remote receiving functionality. Temperature sensing and manual operation is possible through the sleek user panel Reed MC 23xxx. Temperature sensing is also possible through sensors 5201x and 5202x.

54100 KNX MultiController DALI Basic, Wago
54101 KNX MultiController DALI 1x 16A relay, Wago
54102 KNX MultiController DALI 2x 16A relay, Wago

54110 KNX MultiController DALI Basic, Wieland
54111 KNX MultiController DALI 1x 16A relay, Wieland
54112 KNX MultiController DALI 2x 16A relay, Wieland

Dimensions

140 mm

190 mm

Center-center screw holes 178 mm

57 mm   57 mm

Sensors for KNX MultiController

52001 2Sense MC, movement / lux
52011 4Sense MC, movement / lux / temp / humidity
52021 5Sense MC, movement / lux / temp / humidity / PT1000

42101 2Sense MC mini, movement / lux

52800 IR Remote control wall holder
52801 IR Remote control, temperature / lights / blinds
52802 IR Remote control, lights / blinds
52802 IR Remote control, lights / lights

23100 Reed MC free, basic
23101 Reed MC free, temperature
23111 Reed MC free, temperature / blinds
23121 Reed MC free, temperature / lights

23001 Reed MC fixed, temperature
23011 Reed MC fixed, temperature / blinds
23021 Reed MC fixed, temperature / lights

23901 Reed Table base

Accessories for KNX MultiController

52901 RJ45 straight coupler (1:1), white
52902 RJ45 Y-coupler (1:1), white
52903 RJ45 panel mount coupler (1:1), Ø=21mm, black
52904 RJ45 splitter with 0.1m cable (1:1), white
52905 RJ45 connection terminal, binary input 1, white
52910 RJ45 patch cable (1:1), 0.1m, blue
52911 RJ45 patch cable (1:1), 1.0m, blue
52913 RJ45 patch cable (1:1), 3.0m, blue
52915 RJ45 patch cable (1:1), 5.0m, blue
54906 Wago main supply cable SCHUKO, 1m, black
54907 Wago thermo relay output plug, 3-pole, with housing, grey
54911 Wago plug kit for KNX MultiController DALI
54926 Wieland main supply cable SCHUKO, 1m, black
54927 Wieland thermo relay output plug, 3-pole, with housing, grey
54931 Wieland plug kit for KNX MultiController DALI

Technical data

		KNX MultiController		
		54100/ 54110	54101/ 54111	54102/ 54112
Power	• Operating voltage, Main	230V AC 50Hz		
	• Operating voltage, KNX	21...30 V DC		
	• Power consumption, KNX	Normal 10mA / Peak 20mA		
Output relay	• Number of potential free contacts	–	–	–
	• Number of 230V outputs	–	1	2
	• Un rated voltage	–	–	–
	• In rated current	–	16A	
	• DALI output	Broadcast / 4 Groups		
	• Numbers of EVGs	12		
	• Power loss at max. load	4W		
Output relay switching power	• Max. inrush current Ip	–	400A/150µS	
	• AC3 operation (cosφ=0.45) EN 60 947-4 -1	–	8A	
	• AC1 operation (cosφ=0.80) EN 60 947-4 -1	–	16A	
	• DC current switching capacity (Ohmic load)	–		
	• Mechanical endurance	–	100.000	
Inputs	• Number of inputs	2		
	• Polling voltage Un	16V		
	• Sensing current In	1mA		
	• Permitted cable lengths	10 m		
Connections	• KNX	WAGO Winsta KNX / Wieland Gesis BST		
	• Load current circuits	WAGO Winsta MIDI / Wieland Gesis GST		
	• Inputs	Via connection terminal without screws		
	• Wiring	0.5-2.5 mm2		
	• Connection of local sensor	RJ45		
Movement detector	• Detection area at floor (diameter)	8 m		
	• Installation height	3 m		
Operating and display elements	• Through control panel in front			
Housing	• PC + ABS (antimony-, chlorine- and bromine-free flame retardant)			
KNX voltage	• SELV 29V DC (safety extra low voltage)			
DALI voltage	• ELV 16V DC (extra low voltage)	X		
Temperature range	• Operation	+5 °C … +45 °C		
	• Storage	-25 °C … +65 °C		
	• Transport	-25 °C … +65 °C		
Design	• Dimensions (H x W x D)	40.0 x 130.5 x 190.0 mm		
Approvals	• EIB / KNX EN 50 090-2-2	Certification		
CE mark	• In accordance with the EMC guideline and low voltage guideline			