Technical Datasheet

KNX MultiController TWIN

Art.no.: 5430x

KNX MultiController TWIN

- 16 EVGs and 4 DALI groups / broadcast / DT8 TW
- 2 thermo relay outputs 230V/10W
- 2 mechanical multifunctional outputs 230V/16A (Only 54302)
- 4 binary inputs
- One local extension bus TWIN (24V/40mA)
    - Up to two presence detector Intra-Sewi TWIN
    - One local userpanel Cala TWIN
- 4 channel presence sensors
- Constant light controller
- PI-controller temperature, humidity and CO2
- Threshold value for brightness, temperature, humidity and CO2
- 4 MP-bus addresses with internally 24V/10W
- Comparator logic (4/5)
- AND/OR logic (8/8)
- Computer logic (8)
- Scene logic (16/16)
- HCL controller logic (8)

KNX MultiController TWIN is smart, compact and installation friendly, fitted with WAGO Winsta 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 tunable white function, MP-bus gateway for 4 addresses, multifunction relay outputs with logic, timer and PWM, potential free binary inputs for manual operation of lighting or shutters/blinds. Terminals for local sensors make it possible to combine KNX MultiController with sensor to get 4-channel movement control, brightness sensing and constant lighting control functionality.

Temperature sensing and manual operation is possible through the Cala TWIN userpanel 55x55. Temperature sensing is also possible through 66121 and 66131.

KNX MultiController TWIN
54300   KNX MultiController TWIN Basic, Wago
54302   KNX MultiController TWIN 2x 16A relay, Wago

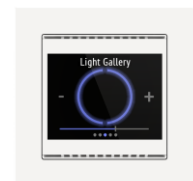**Extension for KNX MultiController TWIN**
66111   Intra-Sewi TWIN L-Pr, ceiling movement/lux, white
66121   Intra-Sewi TWIN TH-L-Pr, ceiling movement/lux/temp/humidity, white
66131   TWIN T-L-Pr-UP Touch, wall movement/lux/temp/buttons, white

66211   Cala TWIN MultiTouch T, Light
66221   Cala TWIN MultiTouch T, Light/Blind
66231   Cala TWIN MultiTouch T, Light/Scenes

66331   Cala Touch TWIN T, display/temp, white
66351   Cala Touch TWIN AQS/TH, display/temp/humidity/CO2, white
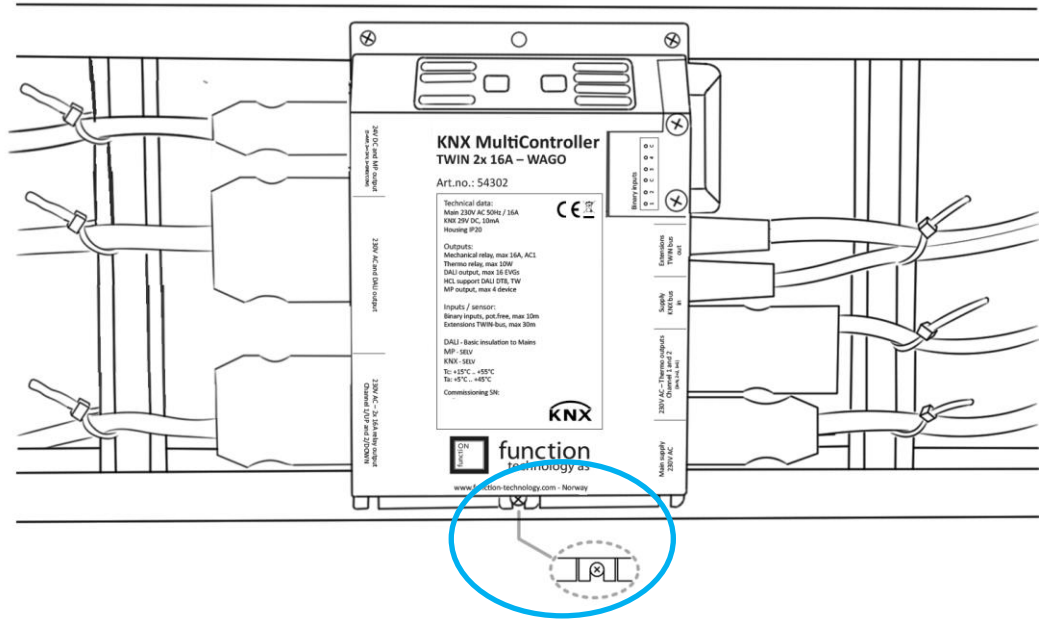
Accessories
54912   Wago plug kit for KNX MultiController TWIN
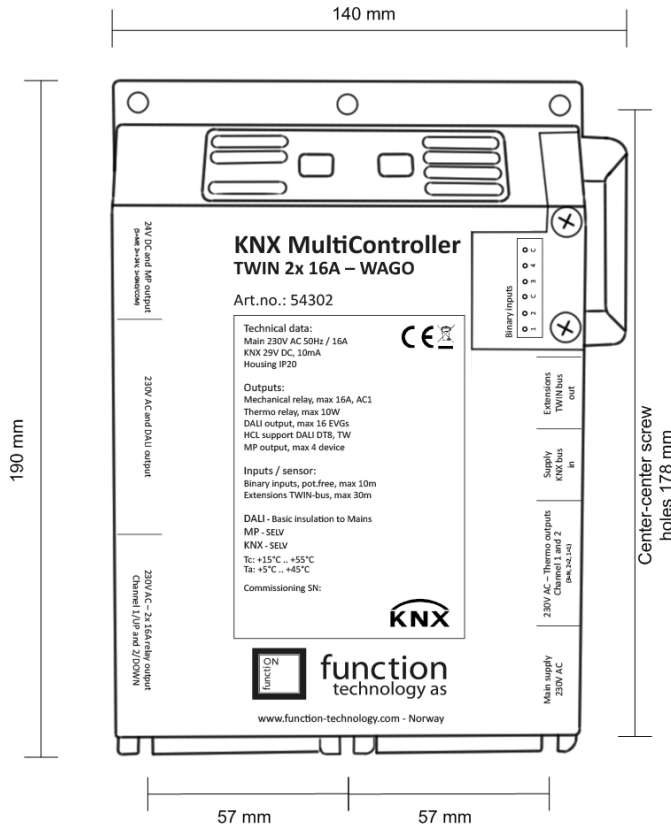
Installation

⚠️

Always mount a screw at the centre screw hole in the back to lock the KNX MultiController securely (see figure below)

Make sure the cables are not weighing down on the connectors, but mounted securely to the cable tray or mounting bracket with cable strips.

⚠️

Dimensions

140 mm

190 mm

Center-center screw holes 178 mm

57 mm   57 mm

Technical data

		KNX MultiController	
		54300	**54302**
Power	• Operating voltage, Main	230V AC 50Hz	
	• Operating voltage, KNX	21...30 V DC	
	• Power consumption, KNX	10mA	
Output relay mechanical	• Number of potential free contacts	–	–
	• Number of 230V outputs	–	2
	• Un rated voltage	–	–
	• In rated current	–	16A
	• DALI output	Broadcast / 4 Groups	
	• Numbers of EVGs	16	
	• Power loss at max. load	6W	
Mechanical relay switching power	• Max. inrush current Ip	–	492A/1,5ms
	• AC3 operation (cosφ=0.45) EN 60 947-4 -1	–	5A
	• 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	4	
	• Polling voltage Un	24V	
	• Sensing current In	1mA	
	• Permitted cable lengths	10 m	
Connections	• KNX	WAGO Winsta KNX	
	• Load current circuits	WAGO Winsta MIDI	
	• Inputs	Via connection terminal with screws	
	• Wiring	0.5-1.5 mm2	
	• Connection of local sensor	Wago 893	
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)		
MP voltage	• SELV 24V DC (safety extra low voltage)		
TWIN voltage	• SELV 24V 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		