A Group brand | legrand

KNX® AUTOMATION SYSTEM

CATALOGUE

SOLUTIONS FOR THE CONTROL OF THE WHOLE BUILDING

bticino

KNX®

AUTOMATION SYSTEM

Legrand and BTicino are part of the KNX association.

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Automation system

GLOBAL AND INTEGRATED MANAGEMENT

Solutions for the control of the whole building.

The automation offer of BTicino-Legrand complies with the international KNX standard, the most used technology for the intelligent management of buildings.

5.7" TOUCH SCREEN DISPLAY

BLACK GLASS CONTROL
WITH 6 CAPACITIVE TOUCH KEYS
(AXOLUTE FINISH)

4-CHANNEL CONTROL
(LIVINGLIGHT FINISH)

SENSORS AND CONTROLS

This page presents some of the products available to create **KNX** systems.

0 489 21
PIR DETECTION WITH 270° SWIVEL HEAD

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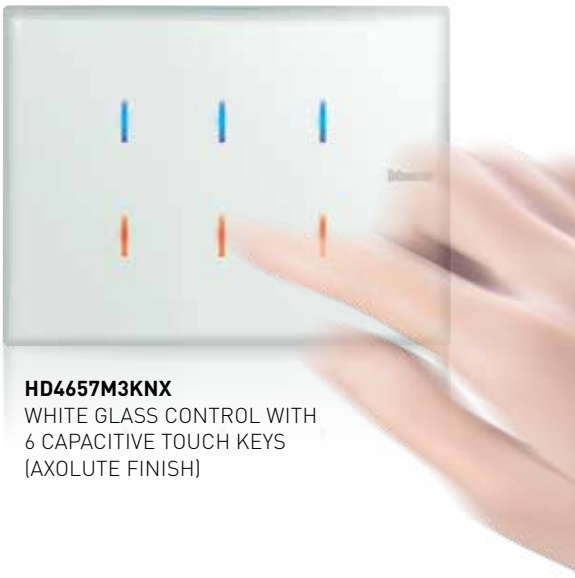


HD4657M3KNX
WHITE GLASS CONTROL WITH 6 CAPACITIVE TOUCH KEYS (AXOLUTE FINISH)

AXOLUTE
GLASS CUSTOMISATION

WHITE - WHICE - NIGHTER

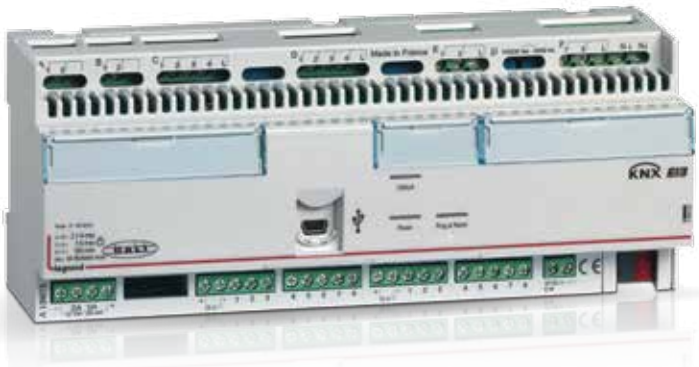
The glass controls can be customised with symbols, on request

CONTROLLERS AND INFRASTRUCTURE PRODUCTS

This page presents some of the products available to create **KNX** systems.

0 484 18
MULTIFUNCTION MODULAR CONTROLLER
FITTED WITH 8 INPUTS AND 10 OUTPUTS

0 026 98
MODULAR CONTROLLER
KNX/DALI GATEWAY



0 484 22
MULTIFUNCTION MODULAR CONTROLLER
FITTED WITH 16 INPUTS AND 16 OUTPUTS

0 035 43
MODULAR DEVICE
KNX/IP GATEWAY

Supervision software
SUPERVISION SOFTWARE

DATABASE

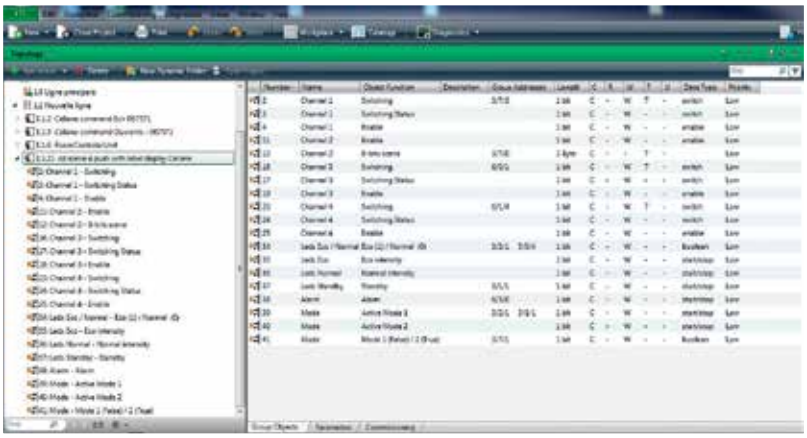
(QR code)

FOR EACH PRODUCT, THE ETS DATABASE CAN BE DOWNLOADED FROM THE "WWW.LEGRANDOC.COM" WEBSITE

ETS software for the configuration of KNX devices

KNX CONFIGURATION SOFTWARE
ETS5

Standardised non-proprietary programming tool, available in 15 languages: the ETS5 software supports all the KNX installations regardless of the adopted solutions (twisted pair, radiofrequency, Ethernet/IP, carrier current in line).
In this mode the controls and sensors can be programmed simply, the controllers and the other devices can be configured.



An accessible programming and configuration system in 3 phases:

1. Acquire the ETS5 software using the KNX association.
2. Download the Legrand/BTicino product database on the www.legrandoc.com site.
3. Import all the products in ETS5

A BTICINO EXCLUSIVE SOLUTION

The sensor can be configured via remote control item BMS04001, as an alternative to the ETS5 software.
This type of configuration allows you to interrogate, display and modify the sensor parameters: brightness threshold, timing and detection sensitivity.
Note: the parameters can be saved to be reproduced on other sensors.

BTICINO EXCLUSIVE

ITEM BMS04001

REMOTE CONTROL:
MOBILITY AT THE SERVICE OF INSTALLATION AND MAINTENANCE

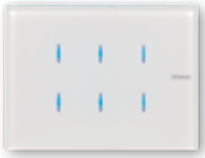
CONTROL DEVICES


H4651KNX


HD4680KNX


LN4651KNX


NT4680KNX


HD4657M3KNX

Item	4 CHANNEL KNX CONTROL DEVICES
○ **H4651KNX** 	Axolute, 4 channel KNX control without finishing accessories. Main functions: - 1 or 2 pushbuttons switch/dimmer - 1 or 2 pushbuttons shutter/shutter blade management - value forwarding (shutter position, dimmer %...) - forwarding of sequential values - forwarding of priority commands - forwarding of multiple commands - forwarding of conditional commands - recalling / saving of 1 and 8 bit scenarios Bus connection using a red-black KNX connector. Supply voltage SELV 29 Vdc from KNX bus. Installation in civil series, to be completed with key covers, support and Axolute cover plate. Sizes: 2 modules.
□ **HD4680KNX** ■ **HC4680KNX** ■ **HS4680KNX** 	Axolute, 4 channel KNX control with scenario finish Main functions: - 1 or 2 pushbuttons switch/dimmer - 1 or 2 pushbuttons shutter/shutter blade management - value forwarding (shutter position, dimmer %...) - forwarding of sequential values - forwarding of priority commands - forwarding of multiple commands - forwarding of conditional commands - recalling / saving of 1 and 8 bit scenarios Bus connection using a red-black KNX connector. Supply voltage SELV 29 Vdc from KNX bus. Installation in civil series, to be completed with support and Axolute cover plate. Sizes: 2 modules.
○ **LN4651KNX** 	LivingLight, 4 channel KNX control without finishing accessories. Main functions: - 1 or 2 pushbuttons switch/dimmer - 1 or 2 pushbuttons shutter/shutter blade management - value forwarding (shutter position, dimmer %...) - forwarding of sequential values - forwarding of priority commands - forwarding of multiple commands - forwarding of conditional commands - recalling / saving of 1 and 8 bit scenarios SELV 29 Vdc supply voltage from KNX bus. Installation in civil series, to be completed with key covers, support and Livinglight cover plate. Sizes: 2 modules.

Item	4 CHANNEL KNX CONTROL DEVICES
□ **N4680KNX** ■ **NT4680KNX** ■ **L4680KNX** 	Livinglight, 4-channel KNX control with scenario finish. Main functions: - 1 or 2 pushbuttons switch/dimmer - 1 or 2 pushbuttons shutter/shutter blade management - value forwarding (shutter position, dimmer %...) - forwarding of sequential values - forwarding of priority commands - forwarding of multiple commands - forwarding of conditional commands - recalling / saving of 1 and 8 bit scenarios SELV 29 Vdc supply voltage from KNX bus. Installation in civil series, to be completed with support and Livinglight cover plate. Sizes: 2 modules.
	6 CHANNEL KNX CONTROL DEVICES
□ **HD4657M3KNX** 	Axolute, 6 channel KNX glass control, transparent colour. Main functions: - 1 or 2 pushbuttons switch/dimmer - 1 or 2 pushbuttons shutter/shutter blade management - value forwarding (shutter position, dimmer %...) - forwarding of sequential values - forwarding of priority commands - forwarding of multiple commands - forwarding of conditional commands - recalling / saving of 1 and 8 bit scenarios SELV 29 Vdc supply voltage from KNX bus. Installation in civil series. Sizes: 3 modules.
■ **HC4657M3KNX**	control as above, whice colour
■ **HS4657M3KNX**	control as above, nighter colour

Also available in customised version, for details contact the reference sales person.

NOTE: □ **White** device ■ **Tech** device ■ **Anthracite** device ○ Neutral item

KEY COVERS FOR BUS/KNX MANUAL CONTROLS
Livinglight

1-FUNCTION SILK-SCREEN PRINTED KEY COVERS			1 module	2 modules
LUMINOUS AND NEUTRAL KEY COVERS				
 NT4915N	**Neutral key cover with luminous upper part**	●	NT4915N	NT4915M2N
 L4915N		■	L4915N	L4915M2N
 N4915LN	**High brightness coverage**	○	N4915LN	N4915M2LN

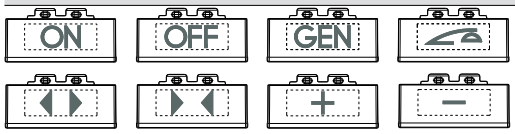
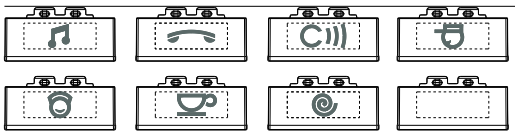
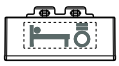
2-FUNCTION SILK-SCREEN PRINTED KEY COVERS			1 module	2 modules
LUMINOUS AND NEUTRAL KEY COVERS				
 N4911N	**Neutral key cover with luminous upper and lower part**	□	N4911N	N4911M2N
 NT4911N		●	NT4911N	NT4911M2N
 L4911N		■	L4911N	L4911M2N

1-FUNCTION SILK-SCREEN PRINTED KEY COVERS WITH SYMBOLS				
 NT4915M2ADN	**Dimmer**	□	—	N4915M2ADN
		●	—	NT4915M2ADN
		■	—	L4915M2ADN
 NT4915AN	**Light**	□	N4915AN	N4915M2AN
		●	NT4915AN	NT4915M2AN
		■	L4915AN	L4915M2AN
 NT4915BN	**Staircase Light**	□	N4915BN	N4915M2BN
		●	NT4915BN	NT4915M2BN
		■	L4915BN	L4915M2BN
 NT4915FN	**Key**	□	N4915FN	N4915M2FN
		●	NT4915FN	NT4915M2FN
		■	L4915FN	L4915M2FN
 NT4915DD	**Do not disturb**	□	N4915DD	N4915M2DD
		●	NT4915DD	NT4915M2DD
		■	L4915DD	L4915M2DD
 NT4915DN	**Bell**	□	N4915DN	N4915M2DN
		●	NT4915DN	NT4915M2DN
		■	L4915DN	L4915M2DN
 NT4915MR	**Make up the Room**	□	N4915MR	—
		●	NT4915MR	—
		■	L4915MR	—

KEY COVERS WITH 2 DIFFUSERS AND LUMINOUS SYMBOLS				
 NT4911AFN	**ON-OFF-GEN**	□	N4911AFN	N4911M2AFN
		●	NT4911AFN	NT4911M2AFN
		■	L4911AFN	L4911M2AFN
 NT4911AGN	**Adjustment ON – OFF**	□	N4911AGN	N4911M2AGN
		●	NT4911AGN	NT4911M2AGN
		■	L4911AGN	L4911M2AGN
 NT4911AHN	**Up - Down**	□	N4911AHN	N4911M2AHN
		●	NT4911AHN	NT4911M2AHN
		■	L4911AHN	L4911M2AHN
 NT4911ADN	**+ up and – down**	□	N4911ADN	—
		●	NT4911ADN	—
		■	L4911ADN	—
 NT4911AIN	**Adjustment ON – OFF**	□	N4911AIN	N4911M2AIN
		●	NT4911AIN	NT4911M2AIN
		■	L4911AIN	L4911M2AIN
 NT4911BFN	**Change the sound source and track**	□	N4911BFN	—
		●	NT4911BFN	—
		■	L4911BFN	—

NOTE: □ **White** device ● **Tech** device ■ **Anthracite** device ○ Neutral item

KEY COVERS FOR BUS/KNX MANUAL CONTROLS
Livinglight

CUSTOMISABLE KEY COVERS WITH DIFFUSERS, AVAILABLE IN KIT			1 module	2 modules
LUMINOUS AND NEUTRAL KEY COVERS				
1 function  customisable	**1-function customisable key cover with 1 diffuser***	○	N4915TN	N4915M2TN
		■	NT4915TN	NT4915M2TN
		●	L4915TN	L4915M2TN
2 functions:  customisable	**2-function customisable key cover with 2 diffusers***	○	N4911TN	N4911M2TN
		■	NT4911TN	NT4911M2TN
		●	L4911TN	L4911M2TN
DIFFUSER KIT				
	**Composition of this kit (5 diffusers for each type)**	○	N4915KIT	
		■	NT4915KIT	
		●	L4915KIT	
	**Composition of this kit (5 diffusers for each type)**	○	N4915KIT	
		■	N4915KIT	
		●	N4915KIT	
	**Kit with diffusers (50 diffusers)**	○	N4915SETBL	
		■	NT4915SETBL	
		●	L4915SETBL	

KEY COVERS FOR BUS/KNX MANUAL CONTROLS
Axolute

1 AND 2-FUNCTION NEUTRAL KEY COVERS			1 module	2 modules
NEUTRAL KEY COVERS - 1 FUNCTION				
 HD4915	 HD4915M2	○	HD4915	HD4915M2
 HC4915	 HC4915/2	■	HC4915	HC4915/2
 HS4915	 HS4915/2	●	HS4915	HS4915/2
NEUTRAL KEY COVERS - 2 FUNCTIONS				
 HD4911	 HD4911M2	○	HD4911	HD4911M2
 HC4911	 HC4911/2	■	HC4911	HC4911/2
 HS4911	 HS4911/2	●	HS4911	HS4911/2

NOTE: ☐ **White** device ■ **Tech** device ■ **Anthracite** device ○ Neutral item

KEY COVERS FOR BUS/KNX MANUAL CONTROLS

Axolute

1 and 2-FUNCTION SILK-SCREEN PRINTED KEY COVERS			1 module	2 modules
1-FUNCTION SILK-SCREEN PRINTED KEY COVERS WITH SYMBOLS				
 HD4915AA	**OFF**	○	HD4915AA	HD4915M2AA
		■	HC4915AA	HC4915/2AA
		●	HS4915AA	HS4915/2AA
	ON	○	HD4915AB	HD4915M2AB
		■	HC4915AB	HC4915/2AB
		●	HS4915AB	HS4915/2AB
 HD4915M2AA	**GEN**	○	HD4915AC	HD4915M2AC
		■	HC4915AC	HC4915/2AC
		●	HS4915AC	HS4915/2AC
	Dimmer	○	HD4915AD	HD4915M2AD
		■	HC4915AD	HC4915/2AD
		●	HS4915AD	HS4915/2AD
 HC4915/2AA	**Light**	○	HD4915BA	HD4915M2BA
		■	HC4915BA	HC4915/2BA
		●	HS4915BA	HS4915/2BA
	Stop	○	HD4915AE	—
		■	HC4915AE	—
		●	HS4915AE	—
	Bedside lamp	○	HD4915BL	HD4915M2BL
		■	HC4915BL	HC4915M2BL
		●	HS4915BL	HS4915M2BL
 HS4915/2AA	**Bell**	○	HD4915BB	HD4915M2BB
		■	HC4915BB	HC4915/2BB
		●	HS4915BB	HS4915/2BB
	Fan	○	HD4915BC	HD4915M2BC
		■	HC4915BC	HC4915/2BC
		●	HS4915BC	HS4915/2BC
 HC4915AC HC4915/2AC	**Key**	○	HD4915BD	—
		■	HC4915BC	—
		●	HS4915BC	—
	Music	○	HD4915BE	HD4915M2BE
		■	HC4915BE	HC4915/2BE
		●	HS4915BE	HS4915/2BE
 HS4915BA HS4915/2BA	**Nurse**	○	HD4915BF	HD4915M2BF
		■	HC4915BF	HC4915/2BF
		●	HS4915BF	HS4915/2BF
	Do not disturb	○	HD4915DD	HD4915M2DD
		■	HC4915DD	HC4915M2DD
		●	HS4915DD	HS4915M2DD

1 and 2-FUNCTION SILK-SCREEN PRINTED KEY COVERS			1 module	2 modules
1-FUNCTION SILK-SCREEN PRINTED KEY COVERS WITH SYMBOLS (CONTINUES)				
	Make up the room	○	HD4915MR	—
		■	HC4915MR	—
		●	HS4915MR	—

1 and 2-FUNCTION SILK-SCREEN PRINTED KEY COVERS			1 module	2 modules
2-FUNCTION SILK-SCREEN PRINTED KEY COVERS WITH SYMBOLS				
 HD4911AF	**ON - OFF - GEN**	○	HD4911AF	HD4911M2AF
		■	HC4911AF	HC4911/2AF
		●	HS4911AF	HS4911/2AF
	ON - OFF	○	HD4911AG	HD4911M2AG
		■	HC4911AG	HC4911/2AG
		●	HS4911AG	HS4911/2AG
 HD4911M2AF	**UP - DOWN**	○	HD4911AH	HD4911M2AH
		■	HC4911AH	HC4911/2AH
		●	HS4911AH	HS4911/2AH
 HC4911AF	**ON - OFF**	○	HD4911AI	HD4911M2AI
		■	HC4911AI	HC4911/2AI
		●	HS4911AI	HS4911/2AI
	Light	○	HD4911BA	HD4911M2BA
		■	HC4911BA	HC4911/2BA
		●	HS4911BA	HS4911/2BA
 HC4911AG	**Fan**	○	HD4911BC	HD4911M2BC
		■	HC4911BC	HC4911/2BC
		●	HS4911BC	HS4911/2BC
 HC4911AI	**Music**	○	HD4911BE	—
		■	HC4911BE	—
		●	HS4911BE	—
 HC4911BC	**+ (up) - (down)**	○	HD4911AD	—
		■	HC4911AD	—
		●	HS4911AD	—

NOTE: □ **White** device ■ **Tech** device ■ **Anthracite** device ○ Neutral item

TEMPERATURE CONTROL DEVICES
Thermostats and controllers

H4691KNX

LN4691KNX

0 026 97

0 490 41

Item

FLUSH MOUNTED THERMOSTATS FOR CIVIL SERIES

○ **LN4691KNX**
○ **H4691KNX**

Flush-mounting thermostat with backlit 1.6 inch display with 4 pushbuttons and incorporated temperature probe.
Used to manage various types of heating/cooling system (FCU, heating/cooling valve, fan, electrical charge, ...) in combination with dedicated HVAC KNX controller item 0 026 97 or 0 490 41.
The device can monitor the room temperature with the unit desired. Adjust the temperature value and/or the fan speed on the FCU. Selection of the operating mode (comfort, protection).
SELV 29 Vdc supply voltage from KNX bus.
Installation in civil series, to be completed with support and Axolute or LivingLight cover plate.
Size: 2 modules.
Bus connection using a red-black KNX connector.

NOTE: The thermostat does not have the adjustment algorithm and thus is used as controller which has the algorithm on board.

Item

FCU ON/OFF DIN CONTROLLER

○ **0 026 97**

ON-OFF actuator to manage the temperature control and drive loads such as: thermostatic valves or FCU. In combination with the temperature control panel, it can be used to manage the room temperature according to the final user's requirements: mode of operation – temperature adjustment - ON/OFF control 2-way valve (2 A 75 at 256 V a.c.)
- 1-way fan control, 3 speeds (6 A 230 V a.c.)
- Control of a logic input: window contact (9 a 265 V a.c. /d.c.)
- Operating temperature from 5 to 45°C
- Operating voltage 230 V a.c. +/- 10% (50/60 Hz)
- Bus connection using a red-black KNX connector.
- Supply voltage 27-50 Vd.c.
- Fitting on DIN rail.
- Sizes: 4 DIN modules

Bus connection using a red-black KNX connector.

FCU 0-10 V DIN CONTROLLER

○ **0 490 41**

FCU 0-10 V DIN actuator to manage the temperature control and drive loads such as: FCU, electrostatic valves and electrical loads in combination with the temperature control panel can be used to manage the room temperature according to the final user's requirements: mode of operation and temperature adjustment.
- 2 outputs 0-10 Vd.c. to control the thermostatic valves (5 mA).
- N 5 outputs (relays) to control the fans (3 speeds) and/or thermostatic valves (10 A - 230 V a.c.).

Operating temperature from -5 to 45°C
- Operating voltage supplied by the KNX bus

Size: 4 DIN modules
It is possible to supply the valves 0 -10 V using the transformer 24 V a.c. item 0 442 11
Bus connection using a red-black KNX connector.

Selection table

			Heating floor	Fan-coil								
	Adjustment		No. of Managed valves	Valves			2 tubes		4 tubes	Type of Control		
	Present	Can be disabled	thermal 2 points	thermal 2 points	motorised 3 points	0-10V	hot/cold	Manual changeover	Manual and automatic changeover	on/off	PWM	Continuous
Controllers												
0 490 41	yes	-	5	2	-	2	1 valve 2 points or 1 valve 0-10V	1 valve 2 points or 1 valve 0-10V	2 valves 2 points or 2 valves 0-10V or 1 valve 2 points + 1 valve 0-10V	with thermal valves 2 points and valves 0-10V	with thermal valves 2 points	with valves 0-10V
0 026 97	yes	yes	-	2	2	-	1 valve 2 points or 1 valve 3 points	1 valve 2 points or 1 valve 3 points	2 valves 2 points or 2 valves 3 points or 1 valve 2 points + 1 valve 3 points		with thermal valves 2 points and motorised valves 3 points	with motorised valves 3 points
Thermostat												
H-LN4691KNX								managed	managed			

NOTE: ○ Neutral item

SENSORS

0 489 18

0 489 19

0 489 21

N4658KNX

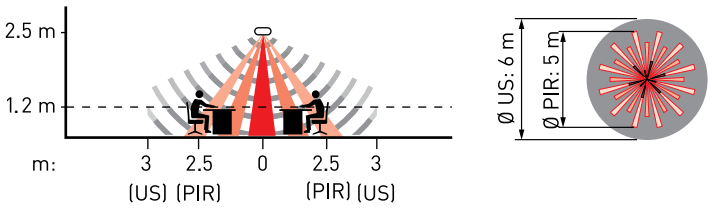
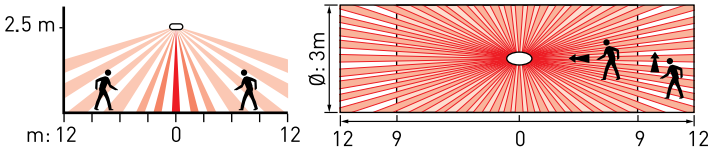
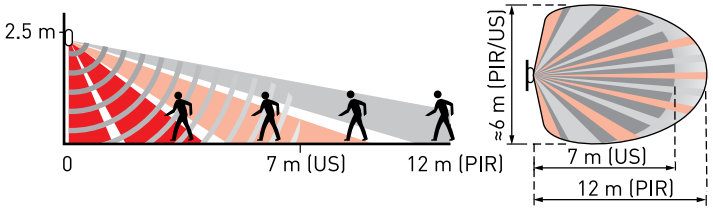
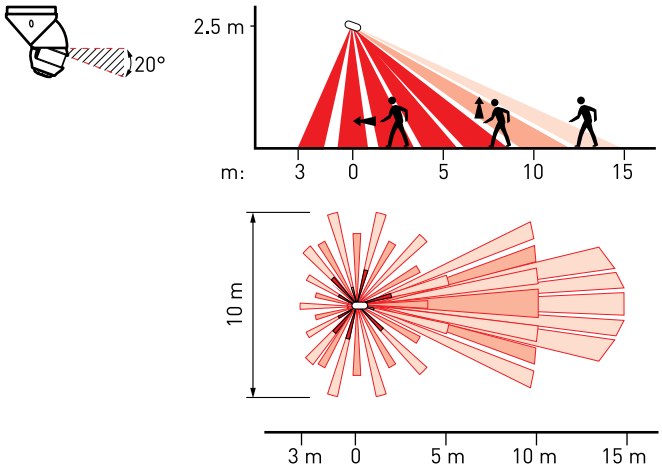
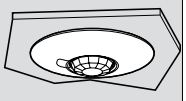
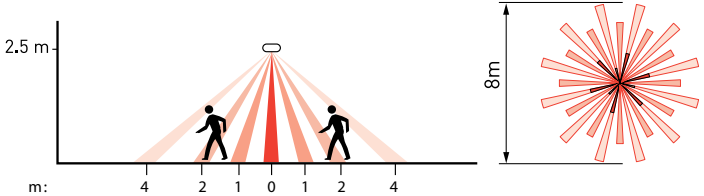
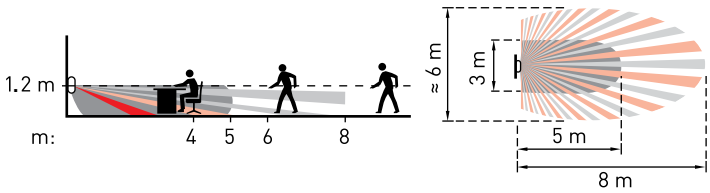
HS4658KNX

Item		SENSORS
○ **0 489 18**		Ceiling mounted double technology KNX sensor, passive infrared and ultrasound (PIR+US), protection degree IP20. Ideal for installation in working areas (e.g. offices, conference and meeting rooms...). Bus connection using a red-black KNX connector. SELV 29 Vdc supply voltage from KNX bus. Flush mounted false ceiling or masonry ceiling installation using flush mounting boxes or springs; ceiling mounted installation using accessory item 048875
○ **0 489 19**		Ceiling mounted KNX PIR sensor, IP20 protection index. Ideal for installation in the centre of the corridor. Bus connection using a red-black KNX connector. Supply voltage SELV 29 Vdc from KNX bus. Flush mounted false ceiling or masonry ceiling installation using flush mounting boxes or springs; ceiling mounted installation using accessory item 048875
○ **0 489 20**		Wall mounted KNX sensor with double technology, passive IR and ultrasound (PIR+US), IP42 protection index. Ideal for installation in working areas (e.g. offices, conference and meeting rooms...). Bus connection using a red-black KNX connector. Supply voltage SELV 29 Vdc from KNX bus. Wall-mounted installation
○ **0 489 21**		Wall mounted KNX PIR sensor, IP55 protection index. Ideal for installation of open transit areas (e.g. car parks...). Bus connection using a red-black KNX connector. Supply voltage SELV 29 Vdc from KNX bus. Wall mounted or ceiling installation
○ **0 489 22**		KNX PIR sensor, IP20 protection index. Ideal for installation in transit areas (e.g. entrance halls, corridors) or working areas (e.g. offices, meeting rooms...). Bus connection using a red-black KNX connector. Supply voltage SELV 29 Vdc from KNX bus. Flush mounted false ceiling or masonry ceiling installation using flush mounting boxes or springs; ceiling mounted installation using accessory item 048875

Item		GREEN SWITCH SENSORS
□ **N4658KNX** ■ **NT4658KNX** ■ **L4658KNX**		KNX PIR Green Switch, IP20 protection index. With on-board pushbutton, ideal for installation in passage areas (e.g. corridors, entrance halls, bathrooms...). Bus connection using a red-black KNX connector. Supply voltage SELV 29 Vdc from KNX bus. Installation in civil series, to be completed with support and Livinglight cover plate. Size: 2 modules.
□ **HD4658KNX** ■ **HC4658KNX** ■ **HS4658KNX**		KNX PIR Green Switch, IP20 protection index. With on-board pushbutton, ideal for installation in passage areas (e.g. corridors, entrance halls, bathrooms...). Bus connection using a red-black KNX connector. Supply voltage SELV 29 Vdc from KNX bus. Installation in civil series, to be completed with support and Axolute cover plate. Size: 2 modules.

NOTE: □ **White** device ■ **Tech** device ■ **Anthracite** device ○ Neutral item

SENSORS
Selection table

Item	Technology and installation type	Load	Detection zone	Application examples
 0 489 18		6 m (US) 5 m (PIR)		Classrooms, meeting rooms, offices, open spaces
 0 489 19		2 x 12 m		Long corridor
 0 489 20		7 m (US) 12 m (PIR)		Individual office, classroom, meeting room, toilets, etc.
 0 489 21		15 m		Areas with high heights (warehouses, gymnasium), outdoor car parks, basements, laboratories
 0 489 22		8 m		Transit areas: corridors, entrance halls Working areas: Offices and meeting rooms
 HC4658KNX HD4658KNX HS4658KNX L4658KNX N4658KNX NT4658KNX		8 m		Entrance halls, staircase

KNX SENSORS
Configuration and installation accessories

BMSO4001

Item	CONFIGURATION REMOTE CONTROLS
BMSO4001	The advanced configuration remote control, with IR transmitter and receiver, adjusts the main operating parameters of: Switch Sensor, Green Switch, SCS compatible sensors and KNX sensors. With display for the acquisition of the parameters set on the sensors and to edit them. Batteries charged by USB mini port.

Item	INSTALLATION ACCESSORIES
0 488 75	Ceiling mounted box compatible with the sensors: BMSA2202, BMSA2204, BMSA2205, BMSE3001 and BMSA3003, 048918, 048919, 048922, IP20 protection index , dimensions Ø 100 x 50 mm
0 489 71	Accessory for angle installation compatible with the sensors: BMSA2104, BMSA2105, BMSA2106, 048920, IP42 protection index , dimensions (hxlxd) 115 x 75 x 40 mm
502E	2 module flush mounted box for masonry ceilings, dimensions 71 x 71 x 53.5 mm
PB502	2 module flush mounted box for double plate plaster coated ceilings, dimensions 71 x 68 x 51 mm
89358	2 module flush mounted box for masonry ceilings, dimensions 85 x 50 mm

A BTICINO EXCLUSIVE SOLUTION

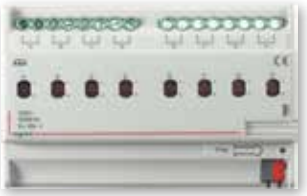
The sensor can be configured via remote control item BMSO4001, as an alternative to the ETS5 software.
This type of configuration allows you to interrogate, display and modify the sensor parameters: brightness threshold, timing and detection sensitivity.
Note: the parameters can be saved to be reproduced on other sensors.

BMSO4001

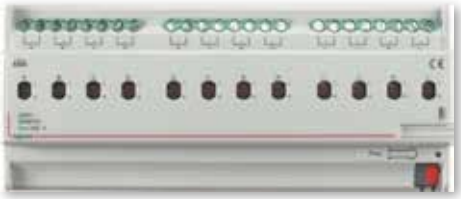
REMOTE CONTROL:
MOBILITY AT THE SERVICE OF INSTALLATION AND MAINTENANCE

MODULAR CONTROLLERS: ACTUATORS

0 026 80



0 026 81



0 026 82

0 026 61

Item	MODULAR CONTROLLERS
○ 0 026 61	KNX actuator with 4 independent channels, each with maximum load 8 A, suitable for the control of light loads. Main functions: - selection of the operating mode (normal or timed switch) - ON/OFF switching - ON/OFF switching with delay - timed ON switching - Configure the AND/OR logic operations for each channel Bus connection using a red-black KNX connector. Supply voltage 110 - 240 V 50-60 Hz. Fitting on DIN rail Sizes: 4 DIN modules
○ 0 026 62	KNX actuator with 8 independent channels, each with maximum load 8 A, suitable for the control of light loads. Main functions: - selection of the operating mode (normal or timed switch) - ON/OFF switching - ON/OFF switching with delay - timed ON switching - Configure the AND/OR logic operations for each channel Bus connection using a red-black KNX connector. Supply voltage 110 - 240 V 50-60 Hz. Fitting on DIN rail Sizes: 4 DIN modules
○ 0 026 80	KNX actuator with 4 independent channels, each with maximum load 16 A, suitable for the control of light loads or controlled sockets. Main functions: - Selection of the normal or timer operating mode - PWM operating mode - Configuration of 2 logic functions - Configuration of 5 scenarios - Configuration of the contact behaviour when a threshold (upper/lower) is passed - Configuration of the contact status at the return of the main power supply or the KNX BUS - Configuration of the object value at the return of the main power supply or the KNX BUS Bus connection using a red-black KNX connector. Supply voltage SELV 29 Vdc from KNX bus. Fitting on DIN rail, size: 4 DIN modules

Item	MODULAR CONTROLLERS
○ 0 026 81	KNX actuator with 8 independent channels, each with maximum load 16 A, suitable for the control of light loads or controlled sockets. Main functions: - Selection of the normal or timer operating mode - PWM operating mode - Configuration of 2 logic functions - Configuration of 5 scenarios - Configuration of the contact behaviour when a threshold (upper/lower) is passed - Configuration of the contact status at the return of the main power supply or the KNX BUS - Configuration of the object value at the return of the main power supply or the KNX BUS Bus connection using a red-black KNX connector. Supply voltage SELV 29 Vdc from KNX bus. Fitting on DIN rail Sizes: 8 DIN modules
○ 0 026 82	KNX actuator with 12 independent channels, each with maximum load 16 A, suitable for the control of light loads or controlled sockets. Main functions: - Selection of the normal or timer operating mode - PWM operating mode - Configuration of 2 logic functions - Configuration of 5 scenarios - Configuration of the contact behaviour when a threshold (upper/lower) is passed - Configuration of the contact status at the return of the main power supply or the KNX BUS - Configuration of the object value at the return of the main power supply or the KNX BUS Bus connection using a red-black KNX connector. Supply voltage SELV 29 Vdc from KNX bus. Fitting on DIN rail, size: 12 DIN modules
○ 0 026 91	KNX actuator for the control of solar protection devices (shutters, Venetian blinds). Fitted with 4 interlocking relays with maximum load of 6A at 230 Vac. Main functions: - selection of the sunlight protection type (Venetian blinds/rolling shutters) - configuration of the movement over time of the sunlight protection (up/down stroke, shutter blade orientation time...) - saving/recalling of 5 scenarios - saving/recalling of the sunlight protection position - selection of the sunlight protection behaviour in case of a wind/rain/frost alarm Bus connection using a red-black KNX connector. Supply voltage SELV 29 Vdc from KNX bus. Fitting on DIN rail Sizes: 4 DIN modules

NOTE: ○ Neutral item

MODULAR CONTROLLERS: MULTIFUNCTION AND DIMMER

0 484 22

0 026 98

Item	MULTIFUNCTION MODULAR CONTROLLERS
○ **0 484 18** 	Multiple application KNX controller with 8 inputs and 10 outputs, capable of performing several functions, including: - ON-OFF lighting control or dimmer - Rolling shutter control - Control of controlled sockets - Measurement of the consumptions of the connected loads (some outputs only). Each output can be controlled using traditional electromechanical devices or KNX devices, and can be configured for operation following three different operating profiles. Bus connection using a red-black KNX connector. Supply voltage 27/-50 Vac Fitting on DIN rail Sizes: 8 DIN modules
○ **0 484 22** 	Multiple application KNX controller with 16 inputs and 16 outputs, capable of performing several functions, including: - ON-OFF lighting control or dimmer using DALI protocol - Rolling shutter control - Control of controlled sockets - Measurement of the consumptions of the connected loads (some outputs only) Each output can be controlled using traditional electromechanical devices or KNX devices, and can be configured for operation following three different operating profiles. Bus connection using a red-black KNX connector. Supply voltage 27/-50 Vac Fitting on DIN rail Sizes: 12 DIN modules

	DIMMER MODULAR CONTROLLERS
○ **0 026 63** 	KNX/DALI interface with 8 independent channels, each capable of managing up to 8 ballasts. Main functions: - Switching, dimmer and forwarding of a dimmer level value - Configuration of ON / OFF switching times, dimmer from 0 to 100 % and from 100 to 0% - Configuration of the minimum / maximum dimmer level - Configuration of 8 bit scenarios for each channel, with the possibility to assign up to 16 scenarios to one channel - Configuration of the objects for the return of the status relating to lamp switching/ dimmer/fault, and DALI status Bus connection using a red-black KNX connector. Supply voltage 110 - 240 V 50-60 Hz. Fitting on DIN rail Sizes: 4 DIN modules

Item	DIMMER MODULAR CONTROLLERS
○ **0 026 98** 	The KNX/DALI gateway is a modular device with 4 DIN modules equipped with 2 channels and fully addressable DALI (Digital Addressable Lighting Interface) able to control up to 64 DALI ECGs each. The KNX/DALI gateway allows not only to send switching controls or adjustment controls but also to receive status information from the field, lamp functioning or other error signals coming from DALI bus. Both KNX and DALI configuration are made with ETS software Main functions: - Switching, dimmer and forwarding of a dimmer level value. - Operating mode selection: normal, night, timer, constant light - Configuration up to 32 luminous scenarios. - Ballast behaviour when there is a power cut Both KNX and DALI configuration are made with ETS and, through its application programs, the main possible functions are: - Switching, dimmer and forwarding of a dimmer level value - Operating mode selection: normal, night, timer, constant light - Scenario control configuration (up to 32 scenarios) - Configuration of reactor behaviour when there is a power cut Bus connection using a red-black KNX connector. Supply voltage 110 - 240 V 50-60 Hz. Fitting on DIN rail. Sizes: 4 DIN modules

NOTE: ○ Neutral item

MODULAR CONTROLLERS: DIMMER

0 026 54

0 026 88

Item	DIMMER MODULAR CONTROLLERS
○ **0 026 54** 	KNX universal dimmer with 2 channels, maximum load 300 W. Main functions: - ON/OFF switching - Manual or automatic dimmer using brightness sensors - Scenario control - Dimmer speed configuration - Minimum/maximum dimmer level setting Bus connection using a red-black KNX connector. Supply voltage 110 - 240V 50-60 hz, fitting on DIN rail. Sizes: 4 DIN modules

Item	MODULAR CONTROLLERS
○ **0 026 86** 	KNX universal dimmer with 2 channels, maximum load 500VA to control incandescent and halogen lamps, and halogen lamps with ferromagnetic or separate electronic transformer. Main functions: - Selection of the normal/timer operating mode - Configuration of the behaviour when ON/ dimming commands are received - Configuration of predefined dimming values - Configuration of 15 light scenarios Bus connection using a red-black KNX connector. Supply voltage SELV 29 Vdc from KNX bus. Fitting on DIN rail Sizes: 8 DIN modules
○ **0 026 88** 	KNX 1-10V 4-channel dimmer to manage interfaced lamps via 1-10V reactors. The device also has 4 contacts, 16A each, to switch light loads Main functions: - Selection of the normal/timer operating mode - Configuration of the behaviour when ON/ dimming commands are received - Configuration of predefined dimming values - Configuration of 15 light scenarios Bus connection using a red-black KNX connector. Supply voltage SELV 29 Vdc from KNX bus. Fitting on DIN rail Sizes: 8 DIN modules

CONTROLLER
Selection table

Item	Outputs	Halogen lamp	TBT halogen with ferromagnetic or electronic transformer	Fluorescent tube	LED and compact fluorescent lamp	Fluorescent lamp with ballast 1-10 V	DALI	Motors (Engines)
Modular controllers								
0 026 98	**-**	-	-	-	-	-	2 x 64 ballast	-
0 026 63	**8**	-	-	-	-	-	8 x 16 ballast	-
0 026 54	**2**	2 x 300 W	2 x 200 VA	300 VA **	2 x 75 VA(*)	-	-	-
0 026 61	**4**	4 x 1000 W	4 x 500 VA	4 x 500 VA	4 x 500 VA	-	-	4 x 500 W
0 026 62	**8**	8 x 1000 W	4 x 500 VA	8 x 500 VA	8 x 500 VA	-	-	8 x 500 W
0 026 80	**4**	4 x 3680 W	4 x 1000 VA	10 X (2 X 36) W	4 x 500 W	4 x 500 VA	-	4 x 500 VA
0 026 81	**8**	8 x 3680 W	8 x 1000 VA	10 X (2 X 36) W	4 x 500 W	8 x 500 VA	-	8 x 500 VA
0 026 82	**12**	12 x 3680 W	12 x 1000 VA	10 X (2 X 36) W	12 x 500 W	12 x 500 VA	-	12 x 500 VA
0 026 86	**2**	2 x 500 W	2 x 500 VA	10 X (2 X 36) W	-	2 x 500 VA	-	-
0 026 88	**4**	-	-	-	-	4 x 3680 VA	-	-
0 026 91	**4**	-	-	-	-	-	-	4 x 1560 VA
0 484 18	**4** **4** **2**	4 x 500 W 4 x 1000 W 2 x 3680 W	4 x 250 VA 4 x 500 VA 2 x 1000 VA	4 x 250 VA 4 x 500 VA 2 x 1000 VA	4 x 80 VA 4 x 160 VA 2 x 500 VA	-	64 ballast	4 x 250 VA 4 x 500 VA 2 x 500 VA
0 484 22	**4** **8** **4**	4 x 500 W 8 x 1000 W 4 x 3680 W	4 x 250 VA 8 x 500 VA 4 x 1000 VA	4 x 250 VA 8 x 500 VA 4 x 1000 VA	4 x 80 VA 8 x 160 VA 4 x 500 VA	-	64 ballast	4 x 250 VA 8 x 500 VA 4 x 500 VA

* : Compatible with LED and compact fluorescent variable
**: With separate electronic transformer

NOTE: ○ Neutral item

INFRASTRUCTURE AND AUTOMATION DEVICES

0 488 84

0 026 94

0 035 12

0 035 16

0 035 47

Item	AUTOMATION
○ **0 026 50**	KNX scenarios/events module It can be used in a KNX system for saving and recalling scenarios/ events. Main functions: • Programming and recalling of 8 scenarios including up to 8 different actuations • Management of data types from 1 bit to 14 bytes • Saving and recalling of scenarios through 1 bit activation commands, or 8 bit scenario telegrams • Variable time delay for the forwarding of telegrams from 0 to 30 minutes, upon recalling of a scenario • Programming and recalling of up to 8 different events consisting of up to 10 activities maximum • Possibility of activation of events, based on reference values or conditions • Variable time delay from 0 to 120 minutes for each event Bus connection using a red-black KNX connector. Supply voltage SELV 29 Vdc from KNX bus. Fitting on DIN rail, size 1 DIN module
○ **0 488 84**	320x240 pixels 5.7" KNX touch screen display with backlighting led. It gives the possibility of managing 40 KNX functions on 5 different pages. Possible functions: - switching/variation of light loads - control of motorised driving devices - temperature setting - selection of the operating mode and setting of the fan speed for HVAC devices - recalling of pre-configured scenarios - display of load status information Bus connection using a red-black KNX connector. Supply voltage 29 Vd.c. SELV from KNX bus and supply voltage 230 Vac 50/60 hz. Wall and flush mounted installation.

	INFRASTRUCTURE
○ **0 026 94**	KNX modular power supply Bus connection using a red-black KNX connector. Input voltage: 120-230V a 50...60 Hz. Output voltage: 29V +2/-1V d.c. SELV. Auxiliary output voltage 29V +2/0V d.c. SELV. Output current: 640 mA . Fitting on DIN rail, size: 6 DIN modules

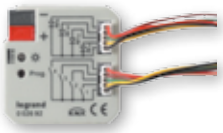
Item	INFRASTRUCTURE
○ **0 035 12**	KNX modular power supply Bus connection using a red-black KNX connector. Input voltage: 230 V +10% to 15%, 50-60 Hz. Output voltage: 29 V ±1V d.c. SELV. Output current: 320 mA . Fitting on DIN rail, size: 4 DIN modules
○ **0 035 16**	KNX coupler, to be used for data exchange between two KNX lines. It may be used as: - line coupling unit (for coupling one line to a main line) - backbone coupling unit (for coupling a main line to the backbone line) - repeater (for coupling two segments of the same line) Bus connection using a red-black KNX connector. SELV 29 Vdc supply voltage from KNX bus. Fitting on DIN rail, size: 2 DIN modules
○ **0 035 47**	KNX/USB opto-insulated interface for the connection of a PC for the addressing, parameter definition, logging display, and diagnostics of KNX systems. Fitted with type B USB connector. USB 1.1 transmission (max. 12 Mbit/s). Bus connection using a red-black KNX connector. Direct power supply from the bus line through USB connection. Fitting on DIN rail, size: 1 DIN modules
○ **0 488 79**	Automatic plastic KNX clamp, red-black colour. It can be used to connect the products, extend or distribute the cable, and protect the cable terminals.
○ **0 492 91**	KNX cable with single pair of twisted conductors (red-black). It may be installed side by side with the 230 V supply cable and is indicated for protruding and flush mounted installation, for installation inside conduits, in dry outdoor areas, provided that protection from sunlight is ensured. Test voltage: 4 kV rated diameter 6.1 mm. Length (in m): 500.
○ **0 492 92**	KNX cable with double pair of twisted conductors (red-black and white-yellow). It may be installed side by side with the 230 V supply cable and is indicated for protruding and flush mounted installation, for installation inside conduits, in dry outdoor areas, provided that protection from sunlight is ensured. Test voltage: 4 kV rated diameter 6.1 mm. Length (in m): 500.

NOTE: ○ Neutral item

GATEWAY AND INTERFACES

0 035 43

0 026 55



0 026 92

0 026 93

Item	GATEWAY AND INTERFACES
○ 0 026 38 	KNX/IP gateway with router, for the connection of KNX lines through computer networks using the IP protocol. The device also allows for simultaneous access to the BUS KNX line from any PC or data processing device connected to the network. Main functions: - Simple IP (Internet Protocol) connection to BUS KNX systems - Direct access to the KNX installation from any point of the IP network (KNXnet/IP tunnelling) - Quick communication among lines, KNX system areas (KNXnet/IP routing) - Filtering and routing of telegrams Bus connection using a red-black KNX connector. SELV 29 Vdc supply voltage from KNX bus. Fitting on DIN rail, size: 2 DIN modules
○ 0 035 43 	KNX/IP Gateway for the management of KNX systems using the web network. With built-in web server for access from the web browser of the PC or mobile device, it gives the possibility of displaying up to 40 KNX functions on a maximum of 5 pages Possible functions: - switching/variation of light loads - control of motorised driving devices - temperature setting - selection of the operating mode and setting of the fan speed for HVAC devices - recalling of pre-configured scenarios - display of load status information Connection to the Bus using a red-black and white-yellow KNX connector. Supply voltage SELV 29 Vdc from KNX bus. Fitting on DIN rail, size: 5 DIN modules

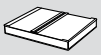
Item	GATEWAY AND INTERFACES
○ 0 026 55 	KNX contact interface with 8 independent channels. It can be used for monitoring different devices, like probes, alarms, etc... Main functions: - Recording of the switching of status (open/closed), and of the status changes (opening/closing), of the different contacts - Monitoring of the switching status, and of the operating status of the contacts (status of connected devices, alarms...) - Recording of the switching status of the contacts and count of the number of switches, and comparison with preset reference thresholds KNX bus connection using a red-black KNX connector. Supply voltage 100/240 V a.c. 50/60 Hz,. Fitting on DIN rail, size: 6 DIN modules
○ 0 026 92 	KNX contact interface with 4 input channels and 4 output channels. Can be used for the interfacing of traditional electromechanical commands to the KNX bus and display of status returns via display elements (LED) Main functions: - switching or dimming - sunlight protection control - temperature value forwarding, levels... - forwarding of multiple orders - saving/recalling of scenarios - sequential or differential counter KNX bus connection using a red-black KNX connector. Supply voltage SELV 29 Vdc from KNX bus. Installation in flush-mounted box, sizes: 46x46x11.7mm
○ 0 026 93	KNX binary interface with 4 independent channels, allowed input signal voltage: 0-265V AC/DC. Can be used for the interfacing of traditional electromechanical commands to the KNX bus and display of status returns via display elements (LED) Main functions: - switching or dimming - sunlight protection control - temperature value forwarding, levels... - forwarding of multiple orders - saving/recalling of scenarios - sequential or differential counter KNX bus connection using a red-black KNX connector. Supply voltage SELV 29 Vdc from KNX bus. Fitting on DIN rail, size: 2 DIN modules

NOTE: ○ Neutral item

SUPERVISION AND INTEGRATION SOFTWARE

0 035 44

Supervision software

Item		INFRASTRUCTURE
○ **0 035 44**		Devices for automatic management of service sector buildings where interoperability among different systems is required: - BTicino-Legrand solutions: Lighting management, safety lighting, load control, fire alarms; - other solutions: HVAC, etc. - It guarantees: - the management of the data from systems based on the following protocols: KNX, MODBUS, BACNET, SCS; - the programming of scripts (with algorithms), alarms, and data logging; - the exchange of data from various systems (example: display of consumption values measured on the power circuit); - the management of HVAC systems (air conditioning, heating); - the forwarding of e-mails in case of alarm. - It can be installed inside rack cabinets. - It can be used together with the supervision software for the supervision of the installation. - It works with: - the load control offer, with the support of the RS 485/IP converter, or with the communication modules used with the measurement control unit; - the BUS/KNX offer through the lighting management KNX/IP gateway;

Item		INFRASTRUCTURE
○ **0 490 00**		Legrand Supervision Software: Single software for integrated supervision of the following Legrand systems: - KNX automation - Power meter With one single interface it is possible to: - Acquire a global vision of the different systems of the building - Manage run-time systems - Display alarms from the different systems - Program timed actions **125 data points licence**
○ **0 490 01**		**250 data points licence**
○ **0 490 02**		**500 data points licence**
○ **0 490 03**		**1000 data points licence**
○ **0 490 04**		**2000 data points licence**

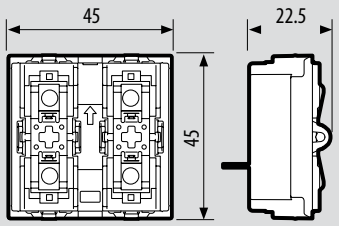
CONTACT OUR SALES PERSONNEL FOR THE AVAILABILITY AND COST OF THE VARIOUS SUPERVISION SOFTWARES

SUPERVISION SOFTWARE

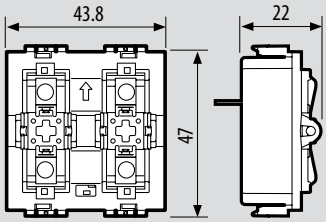
NOTE: ○ Neutral item

DIMENSIONAL DATA

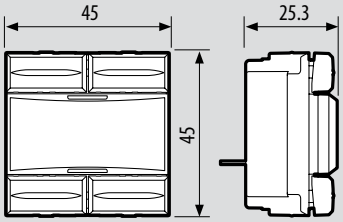
CONTROL DEVICES



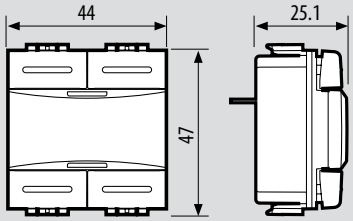
H4651KNX



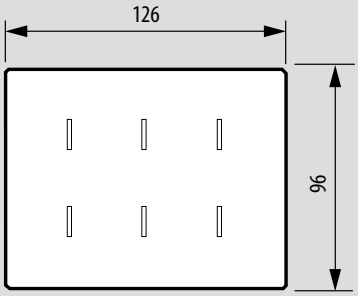
L4651KNX



HD/HC/HS4680KNX



L/N/NT4680KNX



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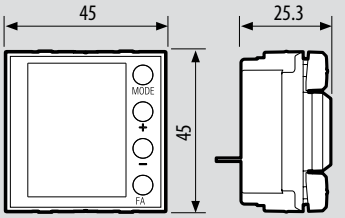

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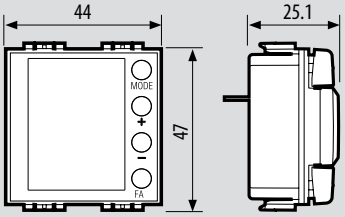
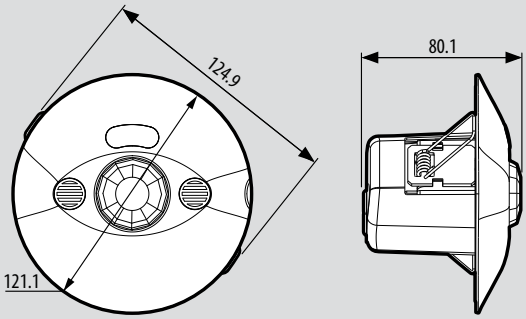
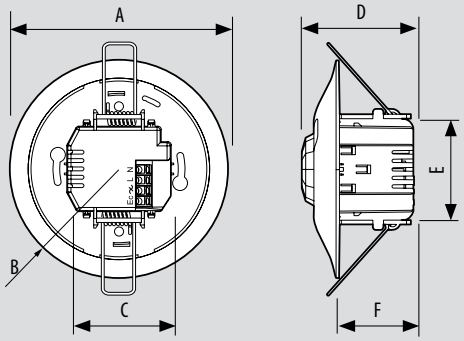


LN4691KNX

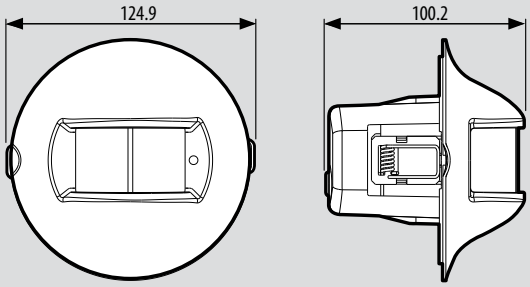
SENSORS



0 489 18



Without cover when installed without flush mounted boxes



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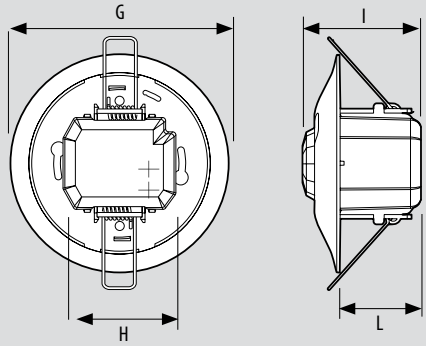
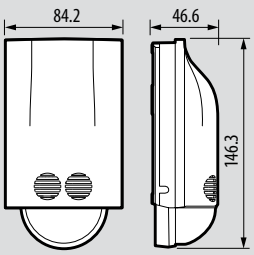


With cover when installed in flush mounted boxes

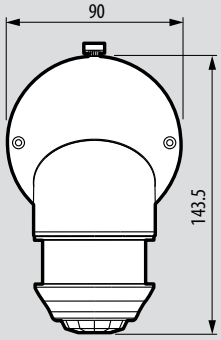
Item	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	L (mm)
0 489 22	102	R:51	50	52.3	51.5	37	102	53.74	55.6	47

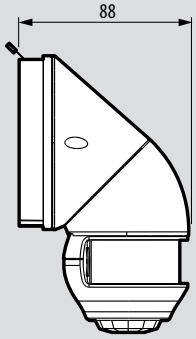
DIMENSIONAL DATA

SENSORS

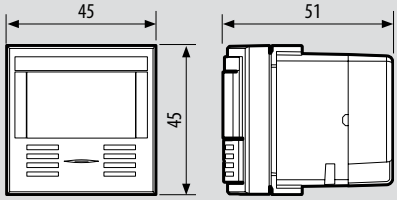


0 489 20



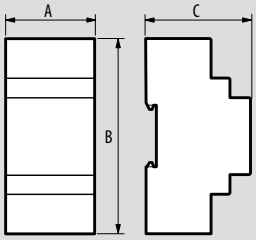


0 489 21



HD/HC/HS4434KNX
L/N/NT4434KNX

DIN MODULARITY



2 DIN modules

TABLE WITH DIN SIZES (mm)			
No. of mod.	A	B	C
1	17.5	82	66
2	35	82	66
3	52.5	82	66
4	70	82	66
5	87.5	82	66
6	105	82	66
7	122.5	82	66
8	140	82	66
9	157.5	82	66
10	175	82	66
12	210	82	66

MODULAR CONTROLLERS

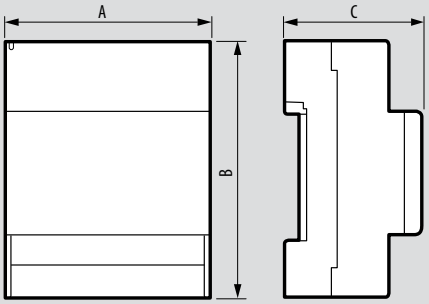
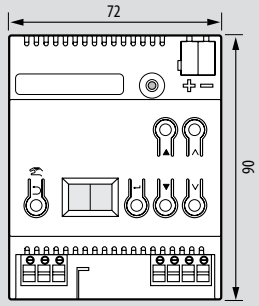
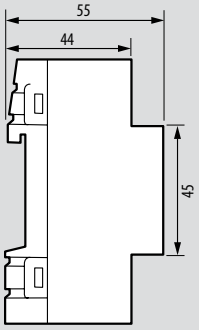


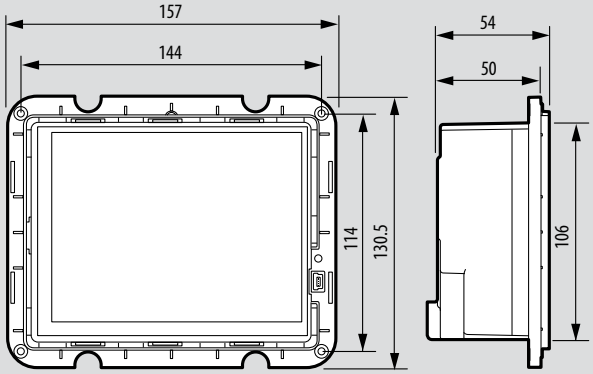
TABLE WITH DIN SIZES (mm) MODULAR CONTROLLERS			
Item	A	B	C
0 026 98	106	90	86
0 026 54	70	90	61.5
0 026 60	70	90	55
0 026 61	70	90	55
0 026 62	70	90	55
0 026 63	70	80	55
0 026 80	70	90	86
0 026 81	140	90	86
0 026 82	210	90	86
0 026 86	140	90	86
0 026 88	140	90	86
0 026 91	70	90	86
0 484 18	140	83	66
0 484 22	213	83	66
0 026 97	70	90	86
0 490 41	70	90	86

FALSE CEILING CONTROLLERS AND AUTOMATION

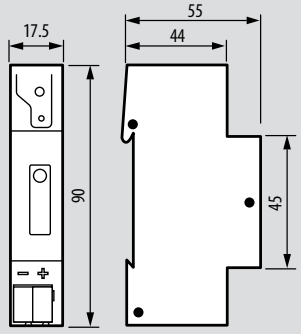




0 026 98



0 488 84



0 026 50

DIMENSIONAL DATA

GATEWAY AND INTERFACES

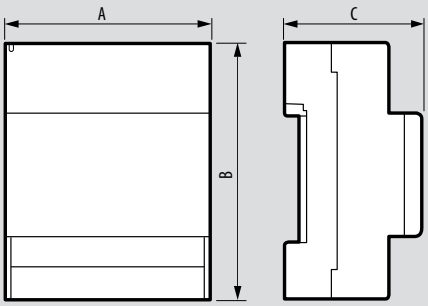
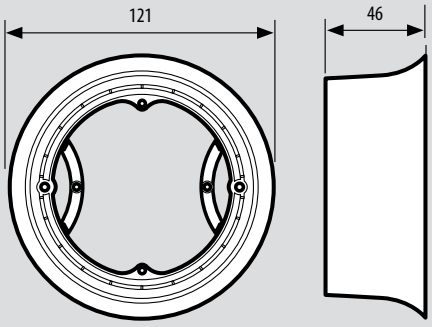
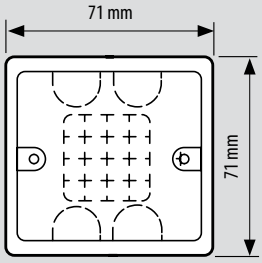


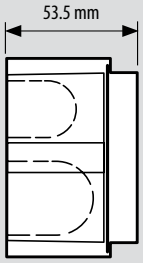
TABLE WITH DIN SIZES (mm)
GATEWAY

Item	A	B	C
0 026 55	105	90	55
0 026 93	35	80	55
0 026 94	105	90	55
0 035 12	72	90	66
0 035 16	36	90	55
0 035 43	86	55	70
0 035 47	18	90	55
0 026 38	35	90	55

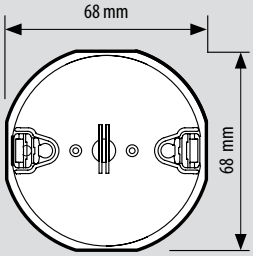


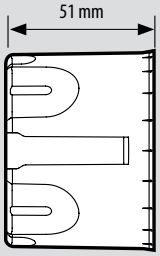
0 488 75



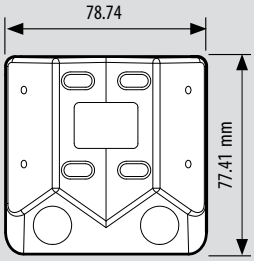


502E

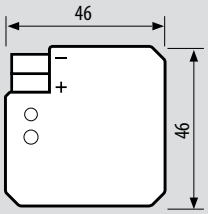




PB502



0 489 71



0 026 92

TABLE WITH DIN SIZES (mm)
INTERFACES

Item	A	B	C
0 026 92	46	46	11.7

NOTES

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