

# AUTOMATION

HOME & BUILDING



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INTELLIGENT



Lighting

Shading

Cooling

Security Control



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# 4 CHANNEL SWITCH ACTUATOR- FLUSH MOUNTED



MADE IN  
EUROPE

4 Channel Switch Actuator is a flush mounted KNX device for Lighting and shading applications in Residential Units, Offices and Hotels. This device is used for switching lights controlling blinds or shutters as determined by KNX telegram. Lights and blinds/shutters can also be controlled by push buttons directly connected to the binary input of the Switch Actuator.

4 LED's can be connected to the device to indicate Status of relays or to be driven by KNX telegrams.

## FUNCTIONAL DESCRIPTIONS

- 4 Channel Switching outputs, 10 A each channel
- All 4 outputs are independent, So it can be used for 230V AC or lower voltage
- Each single output can be used to switch lamps (max. 4 channels)
- Combining 2 outputs can be used for driving blinds or shutters (max. 2 blinds or shutters)
- No need of mains voltage for application download
- 4 pairs of local binary inputs, 3.3V DC with 10kOhm series resistor provided by device. Needs only dry contact
- 4 outputs for status LED's, 3.3V DC with 2.1kOhm series resistor provided by device. Needs only low current LED
- Flush mounted
- Dimension approx. 45 x 54 x 27mm



ORDER CODE

MRP

AN 70844 SA

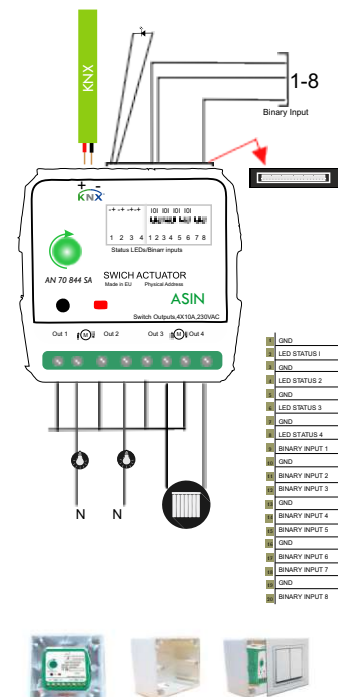
₹15000.00

sales@asinindia.com

## TECHNICAL DATA

Housing	Approx 45 x 54 x 27mm
Mounting	Flush Mounted, Wall mounted and Din Rail Mounted using Din Adaptor
Housing material	ABS V0
Protection degree	IP 20
Weight	60g
Operating Temperature	-5 to 55 C°
Terminals mains voltage and motor	Screw terminals, 24 A 250 V Wire section 2.5mm <sup>2</sup> (12 AWG) Screw M3 maximum torque 0.6Nm (5.3 in.lbs.)
Terminals KNX bus	Pluggable screw terminals, 8A 160V Wire section 1.5mm <sup>2</sup> (16 AWG) Screw M2
Maximum torque	0.25Nm (2.3in.lbs.)
Supply (outputs)	No supply, dry contacts only
Leakage current	No leakage current
KNX	Max. 15mA current consumption from bus (all outputs active)
Voltage supplied from device to binary inputs	3.3V DC, max. 0.33mA (10kOhm internal)
Voltage supplied from device to LED outputs	3.3V DC, 2.1kOhm internal
Cabling	Pluggable 20 wire cable, 100mm length, AWG28
Relay outputs	NO dry contacts
Contact rating (resistive load)	10A, 250V AC (2500W), 30.000-50.000 ops.
Total current of individual outputs	10A
Special loads with inrush current EC 61810-1	Part C.5, 166uF, >15.000 ops.
Contact material	Ag Ni
Dielectric strength	1000V AC 1 minute between open contacts
EMC	EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-11

## APPLICATION EXAMPLE



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# 8 CHANNEL PUSH BUTTON INTERFACE-FLUSH MOUNTED



MADE IN  
EUROPE

The 8 Channel Push button interface is a flush mounted device commonly used in Residential Units, Offices & Hotels.

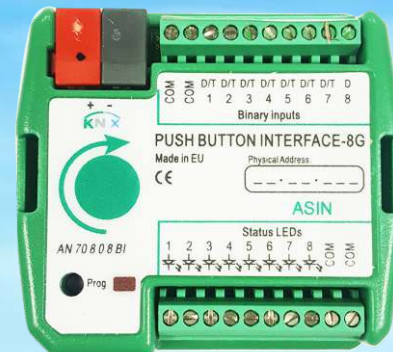
The device can interface with 8 potential free contacts to control lighting, shading or other equipments.

Up to 7 of the binary inputs can be used to connect temperature sensors to measure various temperatures ( local temp, outside temp, inlet air.)

The device can also drive 8 Status LEDs. Each LED can be set to display the status of the corresponding binary input or to display the value of a separate communication object from the KNX bus.

## FUNCTIONAL DESCRIPTIONS

- 8 local binary inputs, 5V DC with 2.2kOhm.
- Needs only dry contacts
- Each binary input can be used to interface push-buttons or switches
- The binary inputs can be used to control lighting, shading or other KNX equipment
- 8 outputs for status LED's, 5V DC with 3.6kOhm series resistor provided by device.
- Needs only low current LED
- No need of mains voltage for application download
- Flush mounted
- Dimension approx. 46.5 x 46.5 x 15.5mm



## ORDER CODE

AN 70808 BI

## MRP

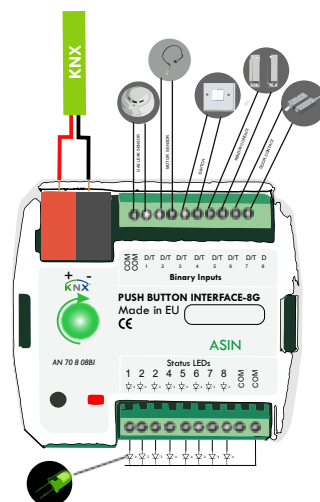
₹11000.00

sales@asinindia.com

## TECHNICAL DATA

Housing	Approx. 46.5 x 46.5 x 15.mm
Mounting	Flush mounted, wall mounted and din Rail mounted using din adaptor
Housing material	ABS V0
Protection degree	IP20
Weight	25g
Operating temperature	-5 to 55°C
Terminals	
KNX	Pluggable micro terminal, Red/Black, 4 pole PUSH WIRE For conductor solid wire 0.6-0.8 mm <sup>2</sup>
Binary inputs / Status LED outputs	Screw terminal green 1 mm <sup>2</sup> / 16 AWG Terminal opening size 1.4x1.7mm Screw M1.6 Maximum torque 0.15 Nm / 1.33 in.lbs
KNX	Max. ≈10mA current consumption from bus Max. current is if all inputs / outputs are 0 Ohm
Local binary input / Status LED's output	
Voltage supplied from device to binary inputs	5V DC, max. 2.2mA (2.2kOhm internal)
Voltage supplied from device to LED outputs	5V DC, 3.6kOhm internal
Temperature sensor Inputs	Temperature sensor Specification as below. NTC 6K8 B25/100 = 4200K 1250VA / 150W
EMC	EN 61000-4-2, EN 61000-4-3 EN 61000-4-4, EN 61000-4-5 EN 61000-4-6, EN 61000-4-11

## APPLICATION EXAMPLE



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# 1 CHANNEL FAN MOTOR CONTROLLER-FLUSH MOUNTED

The MOTOR CONTROL is a flush mounted KNX device for ceiling fan applications in Residential Units, Offices and Hotels. This device is used for varying ceiling fan speed as determined by KNX telegram. Speed can also be varied by push buttons directly connected to the device.

The ceiling fan must be of standard motor type, without control electronics. If using multiple speed fans always force fan to maximum speed.

## FUNCTIONAL DESCRIPTIONS

- Ceiling fan motor controller by leading edge phase dimming
- 230V AC is protected by 1A T replaceable fuse
- Single output for ceiling fan with standard motor
- No need of mains voltage for application download
- Mains failure recognition
- Local binary inputs for varying speed, Needs only dry contact
- Flush mounted
- Dimension approx. 45 x 54 x 27mm



### ORDER CODE

AN 70210 MC

### MRP

₹13000.00

sales@asinindia.com

## TECHNICAL DATA

Housing	Approx. 45 x 54 x 27mm
Mounting	Flush mounted ,wall mounted and din Rail mounted using din adaptor
Housing material	ABS V0
Protection degree	IP20
Weight	45kg
Operating temperature	-5 to 55°C
Terminals mains voltage and motor	Screw terminals, 24A 250V
Wire section	2.5mm <sup>2</sup> (12AWG)
Screw	M3
Maximum torque	0.6Nm (5.3 in.lbs)
Terminals KNX bus	Pluggable screw terminals, 8A 160V
Wire section	1.5mm <sup>2</sup> (16 AWG)
Screw	M2
Maximum torque	0.25Nm (2.3in.lbs.)

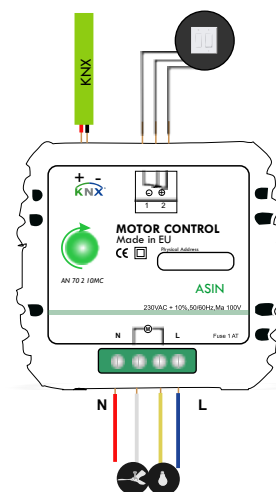
Supply	230V AC +/-10%, 50Hz
Replaceable fuse	Fuse, 10.1 x 3mm, 1A time-lag T, 250V AC, IEC 60127-4/2
Maximum leakage current	< 1mA

KNX	Maximum. 15mA current consumption from bus
Local binary input	NO dry contact
Voltage supplied from device to binary input	3.3V DC, max. 0.33mA (10kOhm internal)
Cabling	Pluggable 3 wire cable, 100mm length, AWG 22

Motor output	230V AC, leading edge phase dimming
Rating	Maximum. 100W

EMC	EN 61000-4-2	EN 61000-4-3
	EN 61000-4-4	EN 61000-4-5
	EN 61000-4-6	EN 61000-4-11
	EN 55022 Class B	

## APPLICATION EXAMPLE



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# DALI GATEWAY



MADE IN  
EUROPE

The DALI Gateway is a device for controlling and monitoring up to 8 DALI ballast. In the DALI gateway KNX input is transformed in to a DALI signal. Due to its decentralized housing it can be installed near the lighting equipment (suspend ceilings) to avoid additional costs of wiring

Each lamp may also be controlled manually using the buttons on the device. Part of the monitoring is directly visible on the device itself. This is useful for commissioning lamps and test the installation even without KNX Programming. KNX bus Power is sufficient for this purpose.

## FUNCTIONAL DESCRIPTIONS

- DALI Gateway for 8 independent DALI Ballasts.
- DALI supply included in the gateway, powered by the KNX bus: No need of external DALI power supply, no need of powering KNX/DALI Actuator with supply voltage.
- 1 KNX input / 1 DALI line output.
- KNX and DALI are isolated with 4kV.
- Each lamp can be set up, controlled and monitored independently
- Each lamp can be tested in handmode by buttons on gateway
- Lamps can be addressed physically or randomly
- Lamp addressing can be done manually by buttons on gateway, or by KNX telegrams
- LEDs for status indication of each lamp
- Housing: 139 x 45 x 19mm (including connectors)



ORDER CODE

MRP

AN 60180 DG

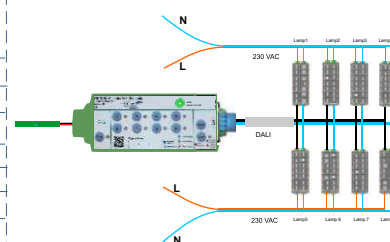
₹20000.00

[sales@asinindia.com](mailto:sales@asinindia.com)

## TECHNICAL DATA

Housing	139 x 45 x 19mm		
Housing material	ABS V0		
Protection Degree	IP 20		
Weight	70 g		
Operating temperature	-5 to 55°C		
Terminals			
KNX	Pluggable, polarized, 250V, 10A, green colour		
DALI	Pluggable, unpolarized, 250V, 10A, blue colour		
Wire section	Solid: 2.5mm2 (12 AWG)/ Stranded: 1.5mm2 (12 AWG)		
Screw	M3		
Maximum torque	0.6Nm (5.3in.lbs.)		
Clamp opening size	2.5 x 2.4mm		
Supply	Powered by KNX Bus		
KNX	30mA current consumption from bus		
EMC	EN 61000-4-2	EN 61000-4-3	
	EN 61000-4-4	EN 61000-4-5	
	EN 61000-4-6	EN 61000-4-11	

## APPLICATION EXAMPLE



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# DALI GATEWAY-FLUSH MOUNTED



MADE IN  
EUROPE

The Flush Mounted DALI Gateway is a device for controlling and monitoring up to 8 DALI ballast. In the DALI gateway KNX input is transformed into a DALI signal. Due to its decentralized housing it can be installed near the lighting equipment (suspend ceilings) or behind the switches to avoid additional costs of wiring.

## FUNCTIONAL DESCRIPTIONS

- DALI Gateway for 8 independent DALI Ballasts.
- DALI supply included in the gateway, powered by the KNX bus: No need of external DALI power supply, no need of powering KNX/DALI Actuator with supply voltage.  
1 KNX input / 1 DALI line output.
- KNX and DALI are isolated with 4kV.
- Each lamp can be set up, controlled and monitored independently



ORDER CODE

MRP

AN 70180 DG

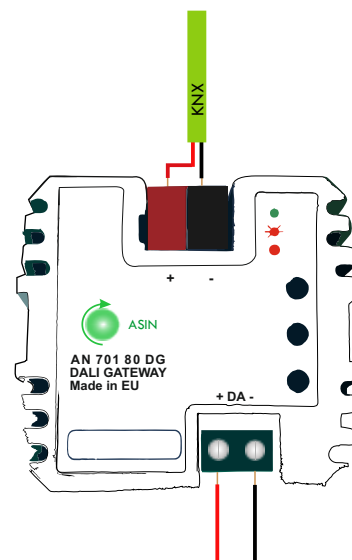
₹18000.00

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## TECHNICAL DATA

Housing	45mm x 45mm x35mm
Mounting	Flush mounted, Wall mounted and din rail mounted using din Adaptor
Housing material	ABS
Protection Degree	IP 20
Weight	60 g
Operating temperature	-5 to 55°C
Terminals Mains voltage / Low voltage	screw terminals, 17.5A250V / Push wire 2x4 poles
Wire section	1.5mm <sup>2</sup> (16AWG) / 0.6-0.8mm <sup>2</sup> (22-20AWG)
Clamp opening size	2.5x2.1mm / -
Screw	M3 / -
Maximum torque	0.5Nm(4.5 in.lbs.)/-
Input	115-230V AC +/-10%,50/60Hz
KNX	30 mA Current Consumption from Bus
EMC	EN 61000-4-2 EN 61000-4-3
	EN 61000-4-4 EN 61000-4-5
	EN 61000-4-6 EN 61000-4-11

## APPLICATION EXAMPLE



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# FLUSH MOUNTED-KNX POWER SUPPLY



MADE IN  
EUROPE

The Flush Power supply KNX 160mA is a device to provide accurate and stable supply voltages to power KNX devices in applications of building automation, access control, Lighting control system etc.

The power supply has a built-in coil, to enable KNX communication over twisted pair.

Because of their small size, these Flush mounted Power Supplies can be mounted in wall boxes, near to the KNX devices, and enable small KNX lines.

The Power supply Flush mounted KNX 160mA features an overload detection to protect themselves in case of wrong or defective load, short circuit etc. So no need of fuse replacement and no maintenance.

## FUNCTIONAL DESCRIPTIONS

- Wide range input voltage, 115V AC / 230V AC, 50/60Hz.
- Accurate DC output voltage
- Integrated choke to enable KNX communication
- Protection against short-circuits and overload
- LED indicator for output voltage Status.



ORDER CODE

MRP

AN 7011600 PS

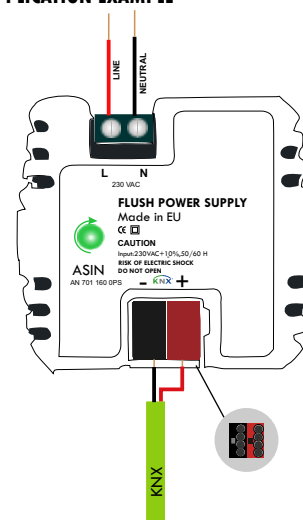
₹14000.00

sales@asinindia.com

## TECHNICAL DATA

Housing	45mmx 45mm x 35mm	
Mounting	Flush mounted, Wall Mounted and Din Rail Mounted Using din Adaptor	
Housing material	ABS	
Protection Degree	IP 20	
Weight	60 g	
Operating temperature	-5 to 55°C	
Terminals Mains voltage / Low voltage	screw terminals, 17.5A 250V / Push wire 2x4 poles	
Wire section	1.5mm <sup>2</sup> (16AWG) / 0.6-0.8mm <sup>2</sup> (22-20AWG)	
Clamp opening size	2.5x2.1mm / -	
Screw	M3 / -	
Maximum torque	0.5Nm (4.5 in.lbs.) / -	
Input	115-230V AC +/- 10%,50/60Hz	
Current 115VAC / 230VA	C0.2A	
Output		
DC voltage	30V DC@ no load	
Max. KNX load	160mA	
Choke	included	
Efficiency	70% @ 160mA load	
EMC	EN 61000-4-2	EN 61000-4-3
	EN 61000-4-4	EN 61000-4-5
	EN 55022-B	EN 61000-4-11

## APPLICATION EXAMPLE



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# KNX POWER SUPPLY 160 mA



MADE IN  
EUROPE

The KNX POWER SUPPLY 160 mA is a DIN Rail mounted KNX device with intergrated choke to directly power a KNX line.

An Auxilary 30V output is available for some extra loads such as displays, binary inputs.

## FUNCTIONAL DESCRIPTIONS

- Integrated KNX choke
- 230V AC, 50/60Hz input, protected by 1A T replaceable fuse
- KNX line output.
- Auxiliary 30V DC output
- Total output current limitation approx. 0.35A
- Output overvoltage protection
- Reset circuit, Set / Rest button on front panel
- LED indicators for voltage OK, Current limitation, Short-Circuit, Reset
- 3-Stage KNX overvoltage protection



ORDER CODE

MRP

AN 6011601 PS

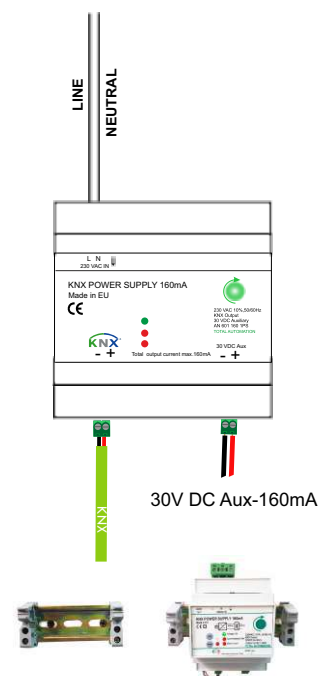
₹ 15000.00

[sales@asinindia.com](mailto:sales@asinindia.com)

## TECHNICAL DATA

Housing	106mm (6 units) x 110 x 60mm	
Mounting	To be mounted on 35mm DIN Rail	
Housing material	UL 94-V0 flame retardant polycarbonate	
Protection Degree	IP 20	
Weight	300g	
Operating temperature	-5 to 55°C	
Terminals Mains voltage / Low voltage	Pluggable screw terminals, 15A 500V / 8A 160V	
Wire section	2.5mm <sup>2</sup> (14AWG) / 1.5mm <sup>2</sup> (16AWG)	
Clamp opening size	2.8x3.1mm / 1.8x2.6mm	
Screw	M3 / M2	
Maximum torque	0.5Nm (4.5in.lbs.) / 0.25Nm (2.3in.lbs.)	
Input	230V AC, 50Hz	
Replaceable fuse	Subminiature fuse, 8.5mm, 1A time-lag T, 250VAC, IEC 60127-3	
Output KNX / Auxiliary	29V DC after included KNX choke/30V DC, before choke	
Current	Total limited to approx. 0.35A (above, voltage decrease)	
Efficiency	85%	
KNX Standart	V1.0 Basic components and standardised solutions.	
EMC	EN 61000-4-2	EN 61000-4-3
	EN 61000-4-4	EN 61000-4-5
	EN 55022-B	EN 61000-4-11

## APPLICATION EXAMPLE



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# KNX POWER SUPPLY 640 mA



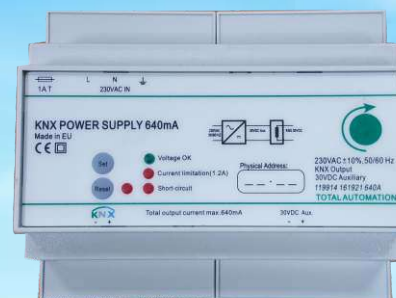
MADE IN  
EUROPE

The KNX POWER SUPPLY 640 mA is a DIN Rail mounted KNX device with integrated choke to directly power a KNX line.

An Auxiliary 30V output is available for some extra loads such as displays, binary inputs.

## FUNCTIONAL DESCRIPTIONS

- Integrated KNX choke
- 230V AC, 50/60Hz input, protected by 1A T replaceable fuse
- KNX line output.
- Auxiliary 30V DC output
- Total output current limitation approx. 1.2A
- Output overvoltage protection
- Reset circuit, Set / Rest button on front panel
- LED indicators for voltage OK, Current limitation, Short-Circuit, Reset
- 3-Stage KNX overvoltage protection



### ORDER CODE

AN 6016401 PS

### MRP

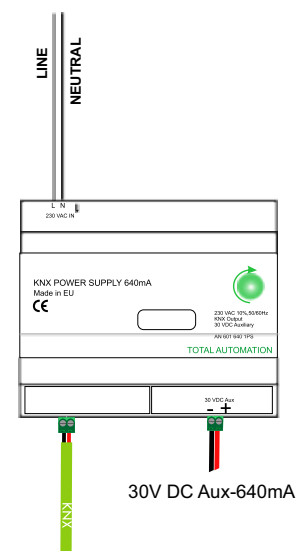
₹ 24000.00

sales@asinindia.com

## TECHNICAL DATA

Housing	106mm (6 units) x 110 x 60mm	
Mounting	To be mounted on 35mm DIN Rail	
Housing material	UL94-V0 flame retardant polycarbonate	
Protection Degree	IP 20	
Weight	300 g	
Operating temperature	-5 to 55°C	
Terminals Mains voltage / Low voltage	Pluggable screw terminals, 15A 500V / 8A 160V	
Wire section	2.5mm <sup>2</sup> (14AWG) / 1.5mm <sup>2</sup> (16AWG)	
Clamp opening size	2.8x3.1mm / 1.8x2.6mm	
Screw	M3 / M2	
Maximum torque	0.5Nm (4.5in.lbs.) / 0.25Nm (2.3in.lbs.)	
Input	230V AC, 50Hz	
Replaceable fuse	Subminiature fuse, 8.5mm, 1A time-lag T, 250V AC, IEC 60127-3	
Output KNX / Auxiliary	29V DC, after included KNX choke / 30V DC, before choke	
Current	Total limited to approx. 1.2A (above, voltage decrease)	
Efficiency	85%	
KNX Standart	V1.0 Basic components and standardised solutions.	
EMC	EN 61000-4-2	EN 61000-4-3
	EN 61000-4-4	EN 61000-4-5
	EN 55022-B	61000-4-11

## APPLICATION EXAMPLE



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# FAN COIL CONTROLLER



MADE IN  
EUROPE

The FAN COIL CONTROLLER is a DIN Rail mounted KNX Device, for heating or Cooling Applications in Residential units, Offices and Hotels. This device is used for driving fans and valves (0-10V or PWM) as determined by the room controller. The FAN COIL CONTROLLER is able to drive up to three fan speeds and an additional 230V AC relay output (eg. for electrical heater). The device has two physical inputs, the first one for connecting a local temperature sensor and the second one to be used as a binary input or as a window contact input. Also the 24V power supply is included.

Using Handmode the installation can be tested even without connection to the KNX bus.

## FUNCTIONAL DESCRIPTIONS

- FAN COIL CONTROLLER Heating or Cooling
- 230V AC Power input is protected by a 5A T replaceable fuse
- Single output for heating or cooling valve
- Valve output can be set to analog 0-10V DC or 24V AC PWM (PWM Period can be set to several values between 115 second and 1 hour)
- FAN output with 1, 2 or 3 fan speeds (separate 230V AC relay)
- Supplementary 230V AC relay output, for electric coil heating, cooling or other application
- Overload LED indicator with internal protection
- Handmode is available for testing purpose, in order to check installation even without device being programmed or connected to KNX bus (Buttons to Increment / Decrement valve output, Increment fan speed, manually switch output Relay)
- Local temperature sensor input
- Local temperature sensor correction (A fixed value can be added or subtracted to the measured temperature)
- Binary input or local window contact input, 24V DC with output limited to about 6mA provided by device. Needs only dry contact
- Operating LED for running or Handmode state indication
- To be mounted on 35mm DIN Rail



ORDER CODE

MRP

AN 6043 FCU

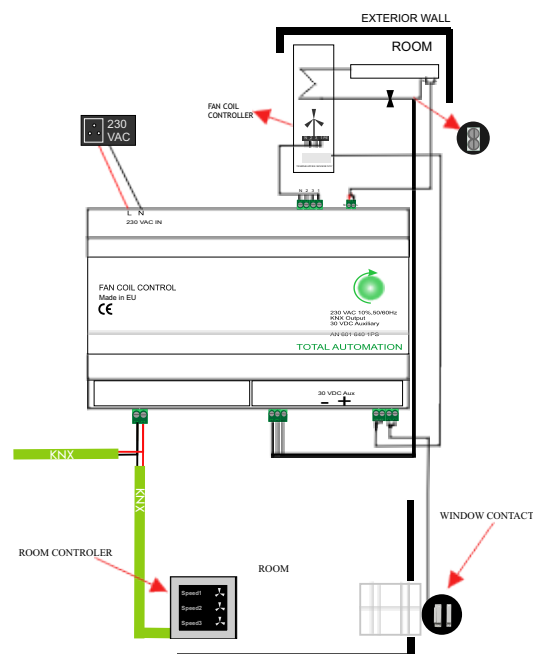
₹ 28000.00

sales@asinindia.com

## TECHNICAL DATA

Housing	106mm (6 units) x 110 x 60mm
Mounting	To be mounted on 35mm DIN Rail
Housing material	UL94-V0 flame retardant polycarbonate
Protection Degree	IP 20
Weight	370g
Operating temperature	-5 to 55°C
Terminals Mains voltage / Low voltage	Pluggable screw terminals, 12A 250V / 8A 160V
Wire section	2.5mm <sup>2</sup> (14AWG) / 1.5mm <sup>2</sup> (16AWG)
Clamp opening size	2.8x3.1mm / 1.8x2.6mm
Screw	M3 / M2
Maximum torque	0.5Nm (4.5in.lbs.) / 0.25Nm (2.3in.lbs.)
Supply	230VAC, 50/60Hz
Replaceable fuse	Subminiature fuse, 8.5mm, 5A time-lag T, 250V AC, IEC 60127-3 The same fuse supplies device and all outputs!
Bus supply voltage	29-30V DC
KNX	10mA current consumption from bus
Window contact input	NO or NC dry contact
Voltage supplied from device to window contact	24V DC, max. 6mA (4k Ohm internal)
Cabling	Twisted pair, maximum 30m
Temperature sensor input	NTC 6K8 B25/100 = 4200K
Temperature sensor	24V DC, modulated
Relay outputs	230V AC
Total current of all outputs	Maximum 10A
Contact rating	10A, 250V AC
Contact material	AgNi
Maximum switching power	2250VA
Dielectric strength	1000V AC 1minute between open contacts
Type of contact	Voltage free, NO
Valve output	24V AC PWM or 0-10V DC modulating
Voltage supplied from device to valve	24V AC, max. 4.5VA nominal, overload / short circuit protected
Type of valve	24V AC PWM or 0-10V AC modulating
24VAC PWM output pulse ratio	0 -100%
24VAC PWM Period	15 seconds ... 1 hour
0-10VDC modulating output	0-10V DC max. 10mA
cabling	Maximum 3m
EMC	EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-11

## APPLICATION EXAMPLE Fancoil use in cooling mode with analog valve



AUTOMATION SPECIALISTS INDIA PVT LTD



# LED DIMMING ACTUATOR-RGBW-KNX

Constant voltage with Common Anode



MADE IN  
EUROPE

## Operating Instructions for authorised electricians

- Installation and commissioning of the device only be carried out by Authorised electricians.
- The relevant standards, directives, regulations and instructions must be observed
- Low voltage device. Never connect 230V A/C

### Operating Parts

- 1 KNX bus terminal
- 2 Programming Key
- 3 RED Programming Key
- 4 Input power supply and LED channel

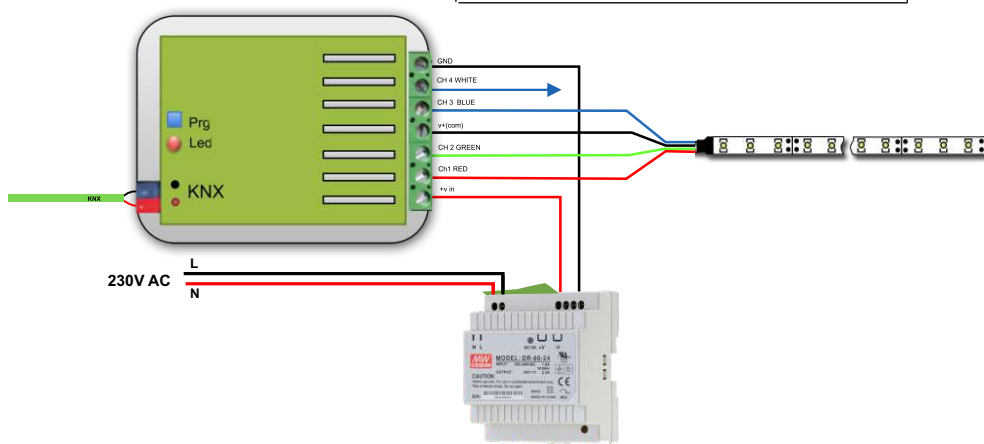


## Installation

- ▶ Connect the Dimming Actuator to the KNX cable
- ▶ Dimming Actuator needs external power supply to program with ETS
- ▶ Wire up LED stripes as described in the circuit diagram
- ▶ Switch on KNX power supply and provide ETS program

### Data

Number of outputs	4
Output Current	3A per channel
Output Voltage	As input voltage
Input Voltage	Up to 42 V
Power Consumption	Up to 500W
Operation Temperature Range	[0-45]°C
Design	96mm x 86mm x 36mm
Can be fixed on Din Rail	



AUTOMATION SPECIALISTS INDIA PVT LTD

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# DIN RAIL ADAPTOR



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AN 60 DINRA

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Using this adaptor, any flush mounted devices can be fixed on wall, ceiling or on din rail.



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