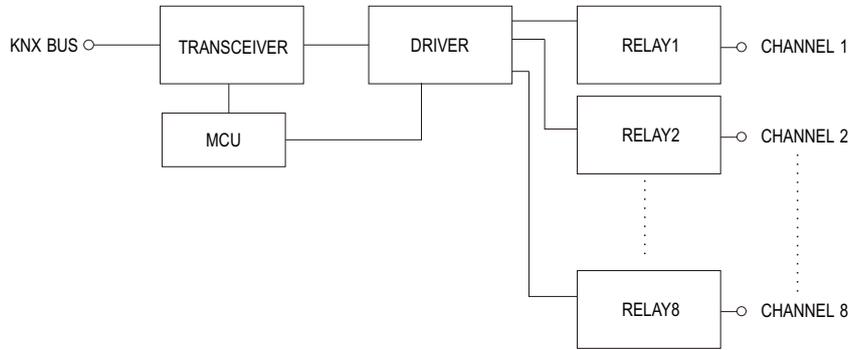


SPECIFICATION

ORDER NO.		KAA-8R-16S	KAA-8R-10S	
SUPPLY	SAFETY MODEL NO.	KAA-8R-S	KAA-8R-10S	
	KNX BUS VOLTAGE	21~31V		
	CURRENT CONSUMPTION	<10mA		
	POWER CONSUMPTION	<180mW		
	Nr. OF SWITCHING OUTPUT	8		
	Nr. OF SHUTTER OUTPUT	4		
	OUTPUT TYPE	Independent, potential-free bistable(latching) relay		
OUTPUT SWITCHING RATINGS	VOLTAGE	230VAC@50Hz		
	CURRENT	OHMIC LOAD	16A	10A
		CAPACITIVE LOAD	220 μ F(See Note.2)	220 μ F(See Note.2)
	MAX. INRUSH CURRENT	800A(max. 200 μ s),165A(max. 20ms)		
	EN60947-4-1 AC1(COS θ =0.8)	16A	10A	
	EN60947-4-1 AC3(COS θ =0.45)	8A	5A	
	EN60947-4-1 AC5a(COS θ =0.45)	8A	8A	
	EN60947-4-1 AC5b	16A	10A	
MAX. TOTAL CURRENT OF THE ACTUATOR	80A	56A		
OUTPUT SERVICE LIFE	MECHANICAL SERVICE LIFE	>10 ⁶		
	ELECTRICAL ENDURANCE EN60669-1 19.1	10 ⁴ (See Note.2)	4*10 ⁴ (See Note.2)	
	EN60669-1 19.2 , FLOURSCENT LAMP(AX)	10 ⁴ (See Note.2)	10 ⁴ (See Note.2)	
OPERATING & DISPLAY	PROGRAMMING BUTTON/LED	Program the individual address		
	MANUAL BUTTON/LED	Manual control and indication		
ENVIRONMENT	WORKING TEMP.	-30 ~ +45°C (3K5)		
	STORAGE TEMP.	-35 ~ +70°C		
	WORKING HUMIDITY	10 ~ 95% RH non-condensing		
	PROTECTION CLASS	II , According to EN61140		
	OVER VOLTAGE CATEGORY	III , According to EN60664-1		
	POLLUTION DEGREE	2, According to EN60664-1		
	DEGREE OF PROTECTION	IP20,According to EN60529		
SAFETY & EMC	SAFETY STANDARDS	BS EN/EN50491-3, BS EN/EN60669-1, BS EN/EN60669-2-1, BS EN/EN60669-2-5(See Note.2), EAC TP TC 004 approved		
	EMC EMISSION	Compliance to BS EN/EN50491-5-1,-2,-3, BS EN/EN50090-2-2, BS EN/EN60669-2-1, BS EN/EN60669-2-5, BS EN/EN63044-5-1,-2,-3(See Note.2), EAC TP TC 020		
	EMC IMMUNITY	Compliance to BS EN/EN50491-5-1,-2,-3, BS EN/EN50090-2-2, BS EN/EN60669-2-1, BS EN/EN60669-2-5, BS EN/EN63044-5-1,-2,-3(See Note.2), EAC TP TC 020		
	WITHSTAND VOLTAGE	Between switching and SELV control circuit: 3.5KVAC		
CONNECTIONS	SCREW TERMINAL	0.5 – 4.0mm ² solid core 0.5 - 2.5mm ² finely stranded		
	KNX BUS CONNECTION TERMINAL	0.8mm ϕ , solid core		
OTHERS	MTBF	597.8K hrs min. Telcordia SR-332 (Bellcore) ; 447.9K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	72*90*57mm (W*H*D)		
	MOUNTING WIDTH IN UNITS	4		
	DIN RAIL MOUNTING	35mm mounting rail according to DIN EN60715		
	PACKING	0.312Kg ; 48pcs/16Kg/1.02CUFT		
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Notified Body test report is provided. ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx			

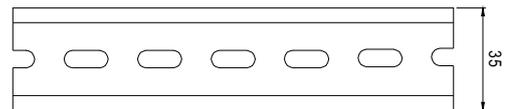
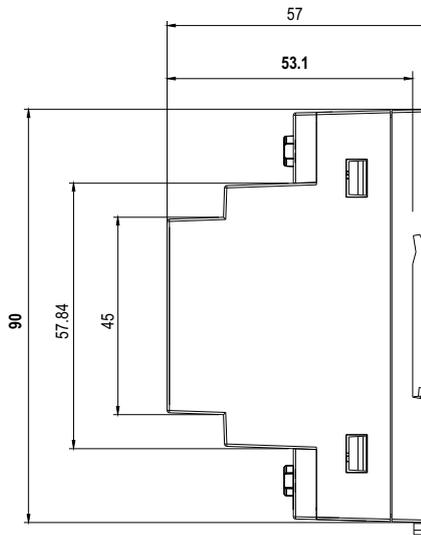
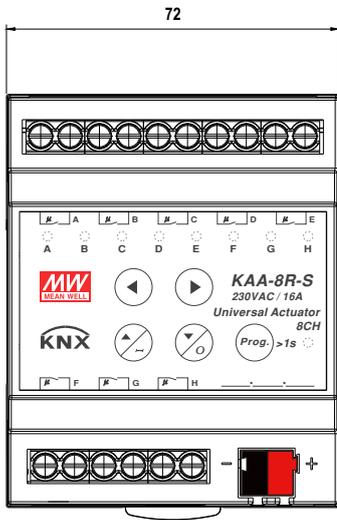
■ Block Diagram



■ Mechanical Specification

Case No. KAA

Unit:mm



ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15

■ Max. output load per channel

Maximum load	CAA-8R-S	CAA-8R-10S
Resistive load or heater	3680W	2300W
LED driver	refer to table below	refer to table below
Incandescent lamps	2300W	2300W
Halogen lamps 230V	2300W	2300W
Halogen lamps, electronic transformer	1300W	1300W
Fluorescent lamps, not compensated	2000W	2000W
Fluorescent lamps, parallel comp.	1200W	1200W
Max. number of electronic transformers	15	15
Shutter motor	600W	600W

■ Nr. of driver per channel

The maximum number of the MEANWELL LED driver that can be connected to each channel at 230V is shown as below		
Suggested model	CAA-8R-S	CAA-8R-10S
APC-8	22	22
APC-12	11	11
APC-16	18	18
APC-25	11	11
APC-35	11	11
APC-8E	22	22
APC-12E	18	18
APC-16E	15	15
APV-8	22	22
APV-12	11	11
APV-16	18	18
APV-25	11	11
APV-35	11	11
APV-8E	22	22
APV-12E	18	18
APV-16E	15	15
LCM-25	25	25
LCM-40	25	25
LCM-60	25	25
LCM-25DA	25	25
LCM-40DA	25	25
LCM-60DA	25	25
LPC-20	11	11
LPC-35	9	9
LPC-60	8	8
LPC-100	7	7
LPC-150	13	5



The maximum number of the MEANWELL LED driver that can be connected to each channel at 230V is shown as below

Suggested model	KAA-8R-S	KAA-8R-10S
LPF-16	18	18
LPF-25	16	16
LPF-40	16	16
LPF-60	9	9
LPF-90	7	7
LPF-16D	18	18
LPF-25D	16	16
LPF-40D	16	16
LPF-60D	9	9
LPF-90D	7	7
LPH-18	16	16
LPHC-18	16	16
LPV-20	11	11
LPV-35	9	9
LPV-60	8	8
LPV-100	7	7
LPV-150	8	8
NPF-40	10	10
NPF-60	10	10
NPF-90	8	8
NPF-120	8	8
NPF-40D	10	10
NPF-60D	10	10
NPF-90D	8	8
NPF-120D	8	8
PCD-16B	80	80
PCD-25B	53	53
PCD-40B	45	45
PCD-60B	26	26
PLC-30	23	23
PLC-45	23	23
PLC-60	23	23
PLC-100	13	13
PLD-16B	40	40
PLD-25	32	32
PLD-40B	32	32
PLD-60B	32	32
PLM-12	53	53
PLM-25	53	53
PLM-40	53	53
PLN-20	23	23
PLN-30	23	23
PLN-45	23	23
PLN-60	23	23
PLN-100	13	13
PLP-30	32	32
PLP-45	27	27
PLP-60	23	23
PWM-40	10	10
PWM-60	10	10
PWM-90	8	8
PWM-120	8	8



The maximum number of the MEANWELL LED driver that can be connected to each channel at 230V is shown as below		
Suggested model	KAA-8R-S	KAA-8R-10S
HLN-40H	10	10
HLN-60H	9	9
HLN-80H	7	7
HLP-40H	7	7
HLP-60H	9	9
HLP-80H	7	7
CEN-60	22	22
CEN-75	22	22
CEN-100	22	22
CLG-60	23	23
CLG-100	13	13
CLG-150	8	8
ELG-75	10	10
ELG-100	8	8
ELG-150	8	8
ELG-75-C	10	10
ELG-100-C	13	13
ELG-150-C	8	8
HBG-100	8	8
HBG-160	8	8
HBG-240	7	7
HBG-60	18	18
HLG-40H	16	16
HLG-60H	9	9
HLG-80H	7	7
HLG-100H	8	8
HLG-120H	8	8
HLG-150H	8	8
HLG-185H	8	8
HLG-240H	7	5
HLG-320H	7	6
HLG-600H	4	3
HLG-60H-C	8	8
HLG-80H-C	8	8
HLG-120H-C	10	10
HLG-185H-C	9	9
HLG-240H-C	7	7
HLG-320H-C	7	6
HSG-70	9	9
HVG-65	20	20
HVG-100	8	8
HVG-150	8	8
HVG-240	5	5
HVG-320	4	4
HVGC-65	20	20
HVGC-100	8	8
HVGC-150	8	8
HVGC-240	5	5
HVGC-320	4	4

■ Configuration and Commissioning

The application program(database) can be downloaded via Online Catalogs from ETS or via https://www.meanwell.com//Upload/PDF/KNX_Application%20Database.pdf

It is also used to check the corresponding firmware version that works with database.

※ KNXInterface

- Apply KNX signal between KNX+ and KNX-.

The application program(database) can be downloaded via Online Catalogs from ETS or via <http://www.meanwell.com/productCatalog.aspx>

The device is equipped with KNX Data Secure. KNX Data Secure offers protection against manipulation in building automation and can be configured in the ETS project. Detailed specialist knowledge is required. A device certificate, which is attached to the device, is required for the first configuration. After configuration and ready for runtime (daily) operation, it is recommended to remove the certificate from the device and to store it securely. For details, please refer to the instruction manual.

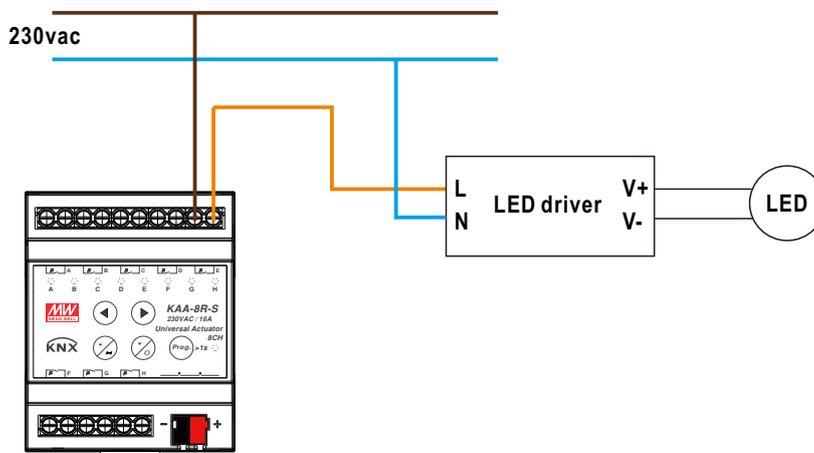
MEAN WELL

Device Certificate

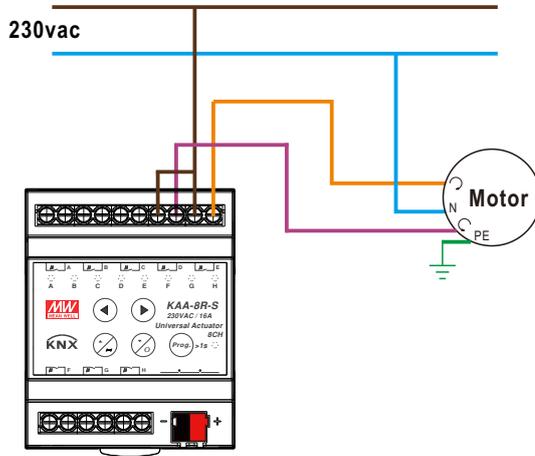


■ Typical application

- ◎ Application 1: Work with non-dimmable driver

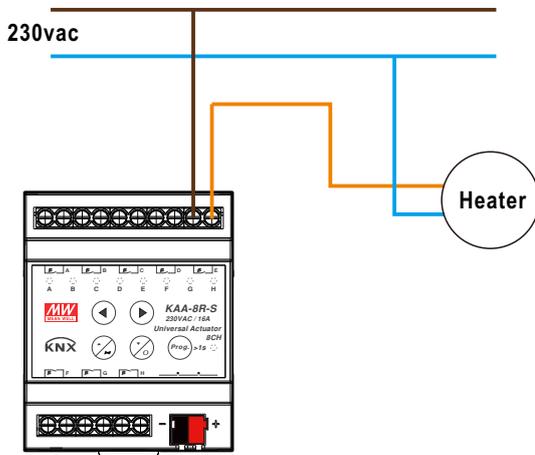


◎ Application 2: Work with shutter/blind control



Note: Check installation manual of shutter motor for wiring.

◎ Application 3: Work with Heater



■ Recommended Screwdriver, Wire and Torque Setting

1. Screwdriver (Width*Thick): Slotted screwdriver 2.5*0.4~3.5*0.6
2. Wire: 0.5~4.0mm² solid core or 0.5~2.5mm² finely stranded
3. Torque: 0.8Nm

■ Installation Manual

Please refer to : <http://www.meanwell.com/manual.html>