

Наличие и актуальные цены на

# LCM-40KN

https://www.mean-well.ru/store/LCM-40KN/





Applications

GTIN CODE

LED indoor lighting

• LED office lighting

LED panel lighting

LED architectural lighting

MW Search: https://www.meanwell.com/serviceGTIN.aspx





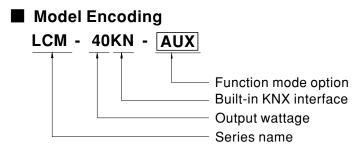


### Features

- Constant Current mode output with multiple levels selectable by dip switch
- KNX/EIB protocol
- Flicker free design
- Support emergency lighting(EL)
- Integrated constant light output
- Integrated KNX push button interface
- · Synchronization up to 10 units
- Functions: Manual dim, operation hours, power consumption feedback, log/linear curve selection...etc
- 3 years warranty

### Description

LCM-40KN series is a 40W AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch and the KNX interface to avoid using the complicated KNX-DALI gateway. LCM-40KN operates from  $180 \sim 295$ VAC and offers different current levels ranging between 350mA and 1050mA. Thanks to the high efficiency up to 90%, with the fanless design, the entire series is able to operate for  $-30^{\circ}C \sim +90^{\circ}C$  case temperature under free air convection. In addition, LCM-40KN is equipped with push dimming and synchronization so as to provide the optimal design flexibility for LED lighting system.



Туре	Function	Note
Blank	KNX and push dimming ,with standby power consumption <0.5W	In Stock
AUX	KNX and push dimming, with standby power consumption <1.2W and Auxiliary DC output	By request



### SPECIFICATION

SPECIFIC											
MODEL		LCM-40KN-									
		Current level selectable via DIP switch, please refer to "DIP SWITCH TABLE" section									
		350mA	500mA	600mA	700mA(default)	900mA	1050mA				
	RATED POWER	42W									
ουτρυτ	DC VOLTAGE RANGE	2 ~ 100V	2~80V	2~67V	2 ~ 57V	2~45V	2~40V				
	OPEN CIRCUIT VOLTAGE (max.)	110V			65V						
	CURRENT RIPPLE Note.5	5.0% max. @rated current									
	CURRENT TOLERANCE	±5%									
	AUXILIARY DC OUTPUT	Nominal 12V(de	Nominal 12V(deviation 11.4~12.6V)@50mA for AUX-Type only								
	SETUP TIME Note.3	500ms / 230VA0	C								
		180 ~ 295VAC	220 ~ 392VDC								
	VOLTAGE RANGE Note.2	(Please refer to	"STATIC CHARACT	ERISTIC" section)							
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)		VAC, PF≧0.95/277 POWER FACTOR	7VAC@full load (PF) CHARACTERIS	TIC" section)						
	TOTAL HARMONIC DISTORTION	THD< 20%(@lo (Please refer to		IC DISTORTION(THD	)" section)						
INPUT	EFFICIENCY (Typ.) Note.4	90%	30%								
	AC CURRENT (Typ.)	0.23A/230VAC									
	INRUSH CURRENT (Typ.)	COLD START 2	0A(twidth=310µs mea	sured at 50% Ipeak) at 2	30VAC; Per NEMA 410						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	21 units (circuit	breaker of type B) / :	35 units (circuit break	er of type C) at 230VAC						
	LEAKAGE CURRENT	<0.5mA/240VA	٨C								
	STANDBY POWER CONSUMPTION Note.6		0.5MA7 240VAC 0.5W for Blank-Type, <1.2W for AUX-Type								
	SHORT CIRCUIT	Constant currer	t limiting recovers a	automatically after fault	condition is removed						
			it initially, recovers a		condition is removed						
PROTECTION	OVER VOLTAGE	110 ~ 130V Shutdown o/p voltage, re-power on to recover									
			voltage, re-power on								
	OVER TEMPERATURE										
	DIMMING		"DIMMING OPERA		4 <sup>1</sup>						
FUNCTION         SYNCHRONIZATION         Please refer to "SYNCHRONIZATION OPERATION" section											
	TEMP. COMPENSATION	,	71		PENSATION OPERATIO	N″section					
	WORKING TEMP.		0°C (Please refer to	"OUTPUT LOAD vs T	EMPERATURE" section)						
	MAX. CASE TEMP.	Tcase=+90°C									
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH no	8								
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10									
	TEMP. COEFFICIENT	±0.03%/°C (0~	∙50℃)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
	SAFETY STANDARDS	ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/EN62384 independent, BIS IS15885(Part2/Sec13), EAC TP TC 004 approved, GB19510.14 and GB19510.1(by request); According to BS EN/EN50172, BS EN/EN 60598-2-22, BS EN/EN61347-2-13 appendix J suitable for emergency installations(EL)(AC Input: 200-240Vac)									
	KNX STANDARDS	Certified protoc	ol								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KV/	AC								
EMC	ISOLATION RESISTANCE	I/P-O/P:>100M	Ohms / 500VDC / 25	°C/70% RH							
	EMC EMISSION Note.7	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C(@load ≥40%) ; BS EN/EN61000-3-3; GB/T 17743, GB17625.1 EAC TP TC 020									
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level(surge immunity Line-Line 2KV), EAC TP TC 020									
	MTBF	1764.6K hrs mir		32 (Bellcore); 190.4K	hrs min. MIL-HDBK-21	7F (25°C)					
OTHERS	DIMENSION	123.5*81.5*23mm (L*W*H)									
	PACKING	<b>.</b> .	15Kg/1.12CUFT								
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</li> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.</li> <li>Efficiency is measured at 500mA/80V output set by DIP switch.</li> <li>Current ripple is measured 50%~100% of maximum voltage under rated power delivery.</li> <li>Standby power consumption is measured at 180~230VAC.</li> <li>The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)</li> <li>The univer so fthe latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently completed to the mains.</li> </ol>										
	connected to the mains. X Product Liability Disclaimer	: For detailed in	formation, please re	efer to https://www.me	anwell.com/serviceDisclai		ne:LCM-40KN-SPEC 202				



# LCM-40KN series

#### BLOCK DIAGRAM PFC fosc : 60KHz PWM fosc : 80KHz ○ +12Vaux RECTIFIERS (optional) EMI FILTER RECTIFIERS POWER 3 PFC • +V I/P O & FILTER & RECTIFIERS SWITCHING CIRCUIT CURRENT MCU CO KNX+ ١ 0.L.P. DETECTION PFC PWM CIRCUIT CONTROL CONTROL 0.T.P. 0.V.P.

### DIP SWITCH TABLE

LCM-40KN is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

DIP S.W.	1	2	3	4	5	6	Max. LED voltage
350mA							100V
500mA	ON						80V
600mA	ON	ON					67V
700mA(factory default)	ON	ON	ON			ON	57V
900mA	ON	ON	ON	ON		ON	45V
1050mA	ON	ON	ON	ON	ON	ON	40V

More current options through DIP switch are exhibited below.

lo DIP S.W.	1	2	3	4	5	6	Max. LED voltage
450mA		ON					78V
550mA				ON			73V
650mA	ON				ON		62V
750mA	ON	ON			ON	ON	53V
800mA	ON	ON		ON		ON	50V
850mA	ON	ON	ON		ON	ON	47V
950mA	ON	ON		ON	ON	ON	42V

Note: The max. LED voltage connected at the output should be always less than the table above.



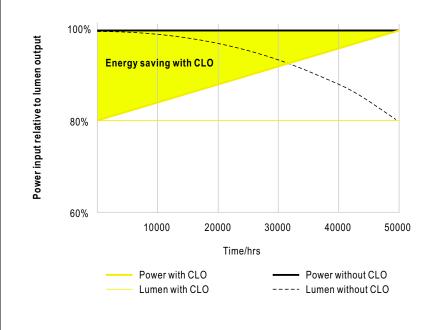
### ■ DIMMING OPERATION

#### ℅ KNX interface

- Apply KNX Bus cable between KNX+ and KNX-
- The application program(database) can be downloaded via Online Catalogs from ETS or via http://www.meanwell.com/productCatalog.aspx

Parametrization options	Description
Switch functions	<ul> <li>Turn on brightness</li> <li>Dimming speed for turn on/off</li> <li>Switch telegram and status</li> <li>Switch on/off delay</li> </ul>
Dimming	<ul> <li>Dimming speed for 0~100%</li> <li>Allow switch on via relative dimming</li> <li>Push dimming with AC inut port</li> <li>Block object for push dimming</li> </ul>
Brightness value	<ul> <li>Dimming speed for transition brightness values</li> <li>Permit set switch on and off brightness via value</li> <li>Brightness value and status</li> </ul>
Faultmessage	Lamp fault     AC/DC input monitor fault messages
Other functions	<ul> <li>Reaction on KNX voltage failure/recovery</li> <li>Power-On level</li> <li>Dimming curve select(linear/log)</li> <li>Synchronous dimming output</li> <li>Block function(Block1&amp;Block2)</li> <li>Staircase lighting function(multi-stage switch-off)</li> </ul>
General function	Cyclic monitoring telegram(In operation)
8 Scenes	Recall and save via KNX with 8-bit telegram
Operating hours & CLO	Operating hours counter     Constant light out(5 scheduled divisions)
Power consumption feedback	Power consumption report

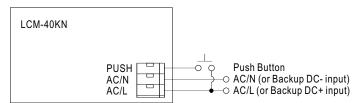
### **※** CONSTANT LIGHT OUTPUT





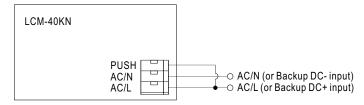


 $\odot$  PUSH dimming



- · KNX bus need to be connected when using PUSH Dimming
- The detailed function of PUSH dimming, please refer to the database.
- The maximum length of the cable between the push button and driver is 20 meters.
- The mechanical push button can be connected only between the PUSH terminal, as displayed in the diagram, and AC/L (in brown or black); it will lead to short circuit if it is connected to AC/N.
- In case the PUSH dimming is set locally, up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
- In case the PUSH dimming is set independently via ETS, the number of drivers is done through group address and determined by the ETS project designer.

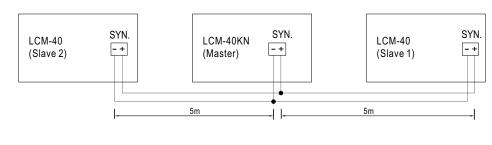
#### $\odot$ AC/DC input monitor



- · KNX bus need to be connected when using AC/DC input monitor
- The detailed function of AC/DC input monitor(emergency lighting), please refer to the database and instruction manual.

### SYNCHRONIZATION OPERATION

- · Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 6%~100%
- Sync cable length : < 5m
- Sync cable type : Flat cable
- Sync cable cross section area : 22 24 AWG (0.2~0.3mm<sup>2</sup>)

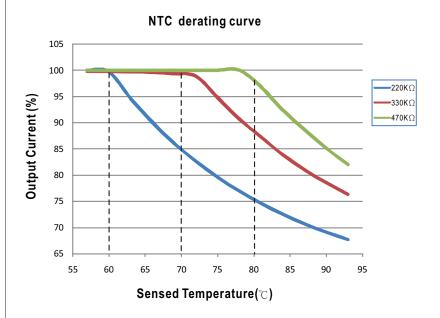


NOTE: Min. Dimming operating range depends on database setting.



### ■ TEMPERATURE COMPENSATION OPERATION

LCM-40KN have the built-in temperature compensation function; by connecting a temperature sensor (NTC resistor) between the +NTC /-NTC terminal of LCM-40KN and the detecting point on the lighting system or the surrounding environment, output current of LCM-40KN could be correspondingly changed, based on the sensed temperature, to ensure the long life of LED.



© LCM-40KN can still be operated normally when the NTC resistor is not connected and the value of output current will be the current level selected through the DIP switch.

#### ◎ NTC reference:

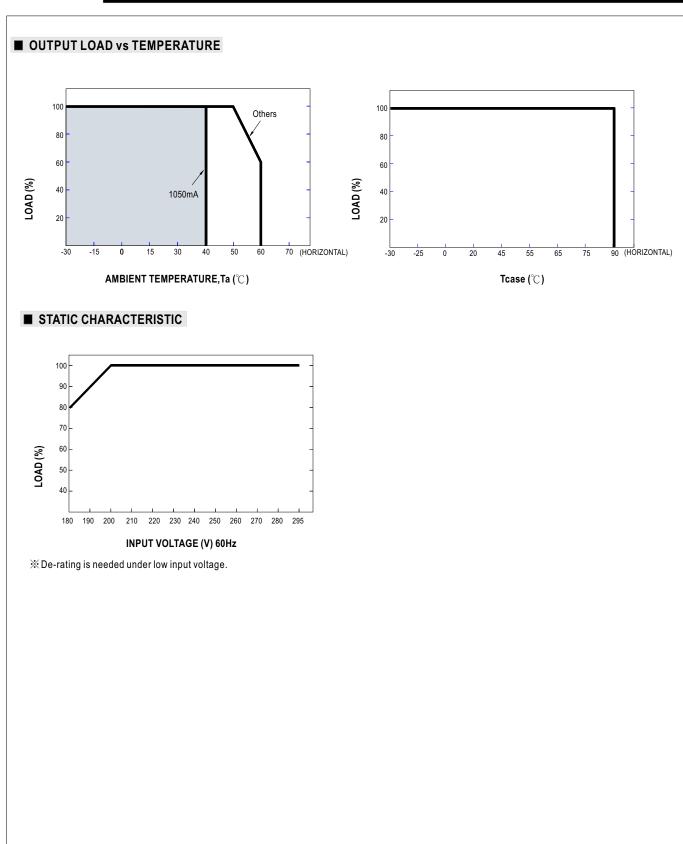
NTC resistance	Output Current
220K	< 60 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 60 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.
330K	< 70 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 70 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.
470K	< $80^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > $80^{\circ}$ C, output current begins to reduce, please refer to the curve for details.

Notes: 1. MEAN WELL does not offer the NTC resistor and all the data above are measured by using THINKING TTC03 series. 2. If other brands of NTC resistor is applied, please check the temperature curve first.

© KNX control, dimming and synchronization function of the driver will be invalid when the "temperature compensation" function is in use.

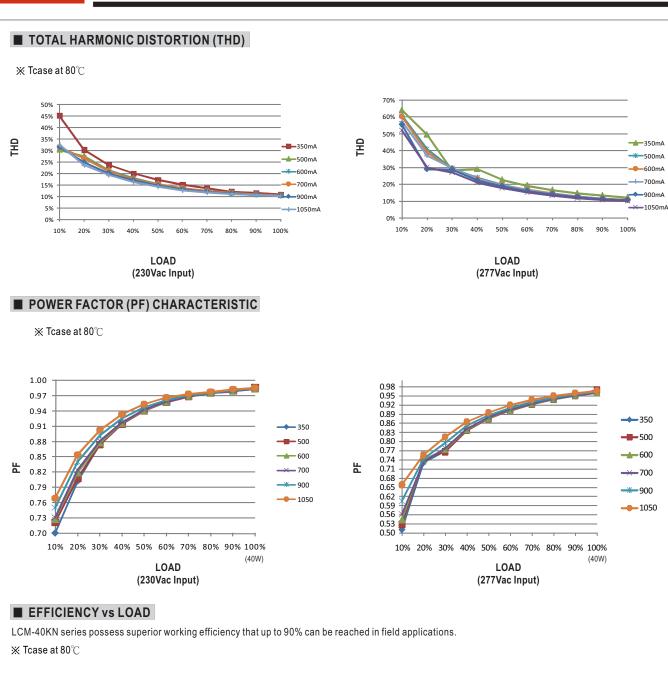


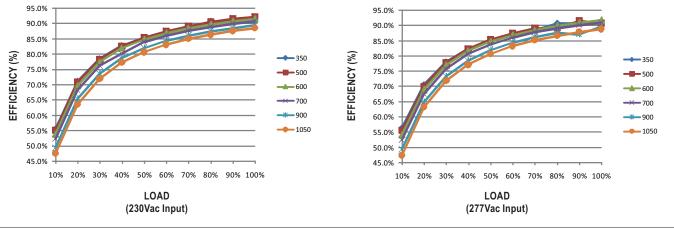
LCM-40KN series





LCM-40KN series

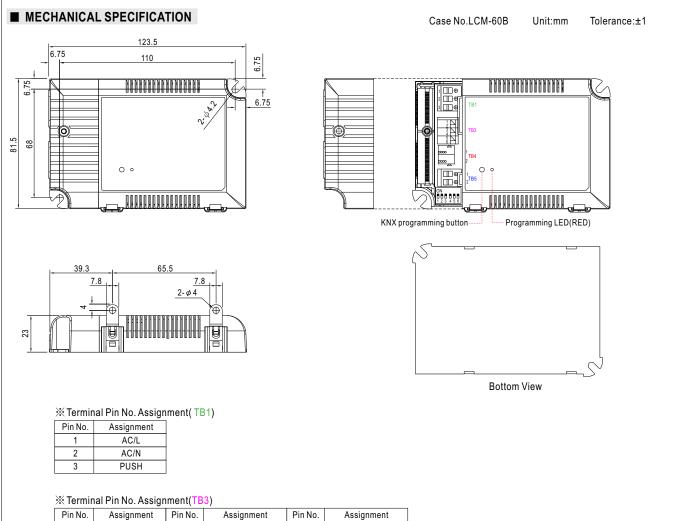




File Name:LCM-40KN-SPEC 2024-10-16



## LCM-40KN series



1         +FAN(optional)         3         +NTC         5         +SYN           2         -FAN(optional)         4         -NTC         6         -SYN		Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
2 -FAN(optional) 4 -NTC 6 -SYN		1	+FAN(optional)	3	+NTC	5	+SYN
	Γ	2	-FAN(optional)	4	-NTC	6	-SYN

© Pin1(+FAN) / Pin2(-FAN) is the Auxiliary DC output for the optional model LCM-40KN-AUX; it can be used to drive fan.

#### ※ Terminal Pin No. Assignment(TB4)

Pin No.	Assignment
1	KNX-
2	KNX+

#### ※ Terminal Pin No. Assignment(TB5)

	0
Pin No.	Assignment
1	+V
2	-V

### Installation Manual

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