



XLC-40-KN-S Series (Independent type)





User's Manual

XLC-40-KN Series (Built-in type)



Features

- Constant power mode output with multiple stage selectable by ETS database
- · Plastic housing with class II and PFC design
- Flicker free, complying with CE ErP directive
- Standby power consumption <0.5W
- Meet emergency lighting (EL) function application
- · KNX/EIB protocol, support KNX data secure
- Minimum dimming level 0.5%
- Function:operation hours,power consumption feedback, log/linear curve selection...etc

Applications

- Recessed Light
- Down Light
- Panel Light
- Commercial Lighting
- Decorative Lighting
- KNX digital Lighting

GTIN CODE

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

5 years warranty

Description

XLC-40-KN Series is a 40W with constant power output LED driver . It can operate from 100~305VAC and output current ranging between 600 mA to 1400 mA selectable by ETS database. The integrate KNX interface avoids using the compliated KNX-DALI gateway. Thanks to high efficiency up to 88%, it is able to operate for -25 $^{\circ}$ C ~90 $^{\circ}$ C case temperature under free air convection. XLC-40-KN is designed based on latest safety regulations and provides more flexibility for LED Lighting application.

Model Encoding XLC - 40 - H - KN



Туре	Function	Note
KN	Built-in KNX interface, without strain-relief (Built-in type)	In stock
KNS	Built-in KNX interface, with strain-relief (Independent type)	In stock



SPECIFICATION

MODEL		XLC-40-H-KN				
	OPEN CIRCUIT	60V				
	VOLTAGE Note.2					
		OUTINA				
	(BY ETS Database)	0.6~1.4A				
UUIFUI	CONSTANT CURRENT	9~54V				
	REGION Note.3					
	RATED POWER Note.4	40%				
		+5%				
	DIMMING RANGE	0~100%				
	SETUP, RISE TIME Note.5	500ms, 100ms/230VAC, 1000ms, 100m	s/115VAC			
	VOLTAGE RANGE	100 ~ 305VAC 141 ~ 400VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR	PF≧0.97/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC@full load				
		(Please reter to "POWER FACTOR (PF) CHARACTERISTIC" section)				
	TOTAL HARMONIC DISTORTION	(Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)				
INPUT	EFFICIENCY (Typ.) Note.6	88%				
	AC CURRENT	0.5A/115VAC 0.25A/230VAC 0.2A/277VAC				
	INRUSH CURRENT(Typ.)	COLD START 10A(twidth=100µs measured at 50% Ipeak) at 230VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A	51 units (circuit breaker of type B) / 51 units (circuit breaker of type C) at 230VAC				
		<0./5mA/2//VAC				
	SIANDBY POWER	Standby power consumption<0.5W(Dimr	ning off)			
	SHORT CIRCUIT	Hiccup mode, recovers automatically after	er fault condition is removed			
PROTECTION	OVER TEMPERATURE	Stare 1: De-rating to 75% loading: Stare 2: De-rating to 50% loading. Recovers automatically after fault condition is removed				
	WORKING TEMP.	Tcase=-25 ~ 90°C (Please refer to " OUT	PUT LOAD vs TEMPERATURE" section)			
	MAX. CASE TEMP.	Tcase=90°C				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)				
	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(EL) appendix J suitable for emergency installations(DC input 176-280VDC), DP EN/EN02044.02/T40544 - OP/T40540 - ADD TO TO TO OP Additional Control ADD/17054247 - ADD/17054247 - ADD/17054				
		BS EN/EN02304, GB/119510.1, GB/11	19510.213, EAC IF IC 004 approved, Designite	10 AS/NZS 01547-1, AS/NZS 01547-2-15		
		I/P-O/P:>100M Ohms / 500VDC / 25°C /	70% RH			
	ISOLATION REDISTANCE	Parameter	Standard	Test Level/Note		
		Conducted	BS EN/EN55015(CISPR15).GB/T 17743			
SAFETY &	EMC EMISSION	Radiated	BS EN/EN55015(CISPR15).GB/T 17743			
		Harmonic Current	BS EN/EN61000-3-2 , GB17625.1	Class C @load≥50%		
		Voltage Flicker	BS EN/EN61000-3-3			
EMC		BS EN/EN61547	•			
		Parameter	Standard	Test Level/Note		
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact		
		Radiated	BS EN/EN61000-4-3	Level 2		
	EMC IMMUNITY	EFT/Burst	BS EN/EN61000-4-4	Level 2		
		Surge	BS EN/EN61000-4-5	Level 3, 1KV/Line-Line		
		Conducted	BS EN/EN61000-4-6	Level 2		
		Magnetic Field	BS EN/EN61000-4-8	Level 2		
		Voltage Dips and Interruptions	BS EN/EN61000-4-11	70% residual voltage for 10		
				period, 0% residual voltage for 0.5 periods		
	KNX					
OTHERS	FLICKER NOTE.8	PSILM ≤ 1, SVM ≤ 0.4 3935.2 K hrs min Telcordia SR-332 //	Relicore): 342.9 Kbrs min MIL-HDBK-217	E (25°C)		
UTILKS	DIMENSION	147*40*32mm 107*40*32mm (I *W*H)	3933.2 K IIIS IIIII. TEICOIDI 315322 (DEICOTE), 342.3 K IIIS IIIII. MILEIDDR2111 (23 C)			
	PACKING	193g; 60pcs/12.6Kg/0.58CUFT(for blank type); 205g; 50pcs/11Kg/0.57CUFT(for S-type)				
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.					
NOTE	2. Output hiccups under no-loa	d condition.				
	4. De-rating may be need under	under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.				
5. 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.						
	 Efficiency is measured at 800mA/50V output set by ETS database. Standby power consumption is measured at 230VAC. Flicker is measured at full load with the light source provided by MEAN WELL. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complet 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) For XLC-S series: RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations. 					
For XLC(except -S) series: RCM is on a voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 11. The ambient temperature de-rating of 3.5°C/1000m with fanless models and 5°C/1000m with fan models for operating altitude h 12. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC) 13. Every insertion please context with MEAN WELL palse.				altitude higher than 2000m(6500ft).		
				per DLC), is about 75°C or less.		
	 Nor more information, please contact with MEAN WELL sales. Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 					
1	1					







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
Device Setting	Select current level Select model Behavior bus power up
Parameter Setting	Basic Setting normal Dimmer, staircase light switch function relative dimming function absolution dimming function Feedback Setting •dimming value report •on/off state report •lamp failure report •Lock function
Scenes	Learn scene scene1~scene32
Automatic function	•Automatic function1~4
operating hours	Counting of operating hours Constant light output(CLO) Life time pre-warning
Power consumption	Voltage, current, power feedback Energy consumption feedback
Temperature Measurement	•customize the alarm temperature •Send temperature report cyclically
Auto-dimming over time	Optional gradient dimming
Correction characteristic	Correction by lux measured value(lux)
Push Dim Port	Push dim AC monitor

※ CONSTANT LIGHT OUTPUT













TOTAL HARMONIC DISTORTION (THD)





