



## 40087 - 40088 LEDCONVERTER 230V LED 24V 50-80VA IP20 DALI DIMM



L	345 mm
L1	303 mm
B	32 mm
H	22 mm

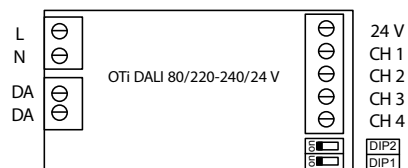


ALWAYS DISCONNECT MAINS POWER SUPPLY FROM CONVERTER BEFORE SWITCHING "ON" LED LUMINAIRES TO PREVENT HOT PLUGGING ISSUES



### Standards

- EN 62386
- EN 61347-1
- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 61000-3-2
- EN 62384
- EN 60598-2-22



Configuration	DIP1	DIP2
1- channel device (1 DALI address): 80 W (50 W) at channel 1	ON	ON
2- channel device (2 DALI addresses): 80 W (50 W) split between channel 1 and 2	OFF	ON
3- channel device (3 DALI addresses): 80 W (50 W) split among channel 1, 2 and 3	ON	OFF
4- channel device (4 DALI addresses): 80 W (50 W) split among channel 1, 2, 3 and 4	OFF	OFF

	Item	Value	Unit	Remarks
INPUT	Nominal voltage	220 – 240	V	
	Nominal frequency	0 / 50 / 60	Hz	
	AC voltage range	198 – 264	V	
	DC voltage range	176 – 276	V	
	Maximum voltage	350	Vac	2 h maximum, unit might not operate in this abnormal condition
	Nominal current	OTi 80: 0,39 OTi 50: 0,26	A	At 230 Vac
	Total Harmonic Distortion (THD)	< 5	%	Full load, 230 Vac, 50 Hz / 60 Hz see graphs
	Power factor	0,98		Typical, Full load, 230 Vac, 50 Hz / 60 Hz, see graphs
	Efficiency	OTi 80: 93 OTi 50: 92	%	Typical, Full load, 230Vac, 50Hz, see graphs
	Standby Power (by DALI)	< 500	mW	230Vac, 50Hz typical 360 mW
	Protection class	II		Suitable for safety class I and II luminaires
	Inrush current	OTi 80: 48 Apk / 220 us OTi 50: 43 Apk / 160 us		
	Max. units per circuit breaker	OTi 80: B16= 10 / B10= 6 OTi 50: B16= 15 / B10= 9		
	OUTPUT	Nominal voltage	24,2	V
Voltage accuracy		+/- 3	%	
Voltage ripple		< 5	%	Ripple / average @ 100 Hz; Full load
Power range		OTi 80: 0 – 80 OTi 50: 0 – 50	W	Power Factor, Harmonics and EMI verified between: 30-80 W 18-50 W
Maximum power		OTi 80: 80 OTi 50: 50	W	LED output
Galvanic isolation		SELV		
DC Output power (EL)	15	%	Preset value, adjustable by Tuner4Tronic	
DIMMING	Dimming control	DALI 2.0		DALI ed2 compatible, TouchDIM
	Dimming range	0,1 – 100	%	
	Dimming technique	PWM		
	PWM frequency	1	kHz	
	Galvanic Insulation	Basic / Double		Basic DALI to Primary / Double DALI to Secondary
ENVIRONMENTAL	Ambient temperature	-20 + +45	°C	
	Maximum case temperature t <sub>c</sub>	OTi80: 85 OTi50: 70	°C	Measured on t <sub>c</sub> point indicated of the prod label, t <sub>a</sub> not exceeded
	Max. case temp. in fault condition	115	°C	
	Storage temperature range	-25 + +85	°C	
	Relative humidity	5 – 85	%	Not condensing
	Surge transient protection	1	kV	L/N acc to. EN 61547
	Environmental rating	Indoor		
	IP rating	IP 20		
Mains switching cycles	> 200'000			
Expected lifetime	50'000	h	t <sub>c</sub> = 85°C - 0,2% / 1'000 h failure rate	
	70'000		t <sub>c</sub> = 70°C - 0,1% / 1'000 h failure rate	