



## Product data

Specification item	Value	Unit
Product name	PROFESSIONALE IN DALI 20	
Order code	127508	
EAN (GTIN)	8010703864498	
Pieces per box	30	
Product weight	180	Gr
Made in	Italy	

## Electrical input data

Specification item	Value	Unit	Condition
Rated input voltage	220...240	Vac	
Input voltage AC range	198...264	Vac	
Input voltage DC range	176...275	Vdc	Factory default 100% EOFi= 1
Rated input frequency	50...60	Hz	
Rated input current	0,101	A	Referred to $V_{in} = 230\text{ V}$ , 100% load
Rated input power	22,80	W	Referred to $V_{in} = 230\text{ V}$ , 100% load
Power factor	0,95	$\lambda$	$P_{out} > 12,2\text{ W}$
THD	< 10	%	Referred to $V_{in} = 230\text{ V}$ , 100% load
Efficiency	88	%	Referred to $V_{in} = 230\text{ V}$ , 100% load
Stand-by Power	< 0,5	W	
Isolation input to output	SELV		

## Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Corrente costante		
Output voltage	10...54	Vdc	
Output voltage max.	59	V	Open load
Output current	125...500	mA	
Output current min programmable	125	mA	
Output current min dimming	7	mA	
Output current tolerance	5	%	
Output power	1...20	W	
Output current ripple	< 3	%	
Output Pst LM	< 1		
Output SVM	< 0,4		

## Label

Labels are for illustrative purposes only and may differ from the actual product

**PROFESSIONALE IN DALI 20**  
**TCI** AC/DC LED P/S for LED  
 MADE IN ITALY cod. 127508  
 via Parma 14, FW242+210  
 21047 Saronno(VA) Italy, www.tci.it  
 PRI: 220-240V~ 50/60Hz  $\lambda_i(P_{out}>12,2W)=0,95$   
 $I_{max}=0,11A$   
 SEC: 500mA max; 20Wmax;  $U_{out}=59V$   
 Dimming: DALI / PushSwitch  
 $t_a=-20...50^{\circ}C$ ;  $t_c=75^{\circ}C$  GMA508799-EA  
 176-275Vdc emerg. range,  $I_{max}=0,13A$   
 E, N, L: 0,75 - 2,5 □ LED, DA/N,  
 DA/Ls: 0,5 - 1,5 □

P <sub>out</sub>	SEC	1	2	3	4
6,8 W	125 mA	-	-	-	-
8,1 W	150 mA	ON	-	-	-
9,5 W	175 mA	-	ON	-	-
10,8 W	200 mA	ON	ON	-	-
12,2 W	225 mA	-	-	ON	-
13,5 W	250 mA	ON	-	ON	-
14,9 W	275 mA	-	ON	ON	-
16,2 W	300 mA	ON	ON	ON	-
17,6 W	325 mA	-	-	-	ON
18,9 W	350 mA	ON	-	-	ON
20 W	375 mA	-	ON	-	ON
20 W	400 mA	ON	ON	-	ON
20 W	425 mA	-	-	ON	ON
20 W	450 mA	ON	-	ON	ON
20 W	475 mA	-	ON	ON	ON
20 W	500 mA	ON	ON	ON	ON

Before use, always check S1 switch settings

10 - 11 mm  
  
 E N L DA/N DA/Ls LED

8 - 9 mm  
  
 T47/25 M M S1  
 1 2 3 4

**Operating window 230V**

<b>Pout W</b>	<b>Vout DC</b>	<b>Iout mA</b>
6,8	10...54	125
8	10...54	150
9,4	10...54	175
10,8	10...54	200
12,15	10...54	225
13,5	10...54	250
14,8	10...54	275
16	10...54	300
17,5	10...54	325
19	10...54	350
20	10...54	375
20	10...54	400
20	10...47	425
20	10...44	450
20	10...42	475
20	10...40	500

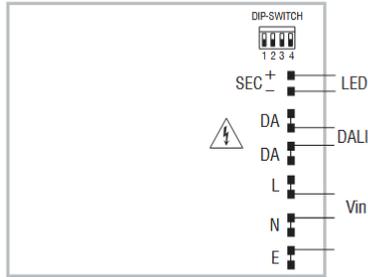
**Electrical data controls input**

<b>Specification item</b>	<b>Value</b>	<b>Unit</b>	<b>Condition</b>
Control method	DALI-2, Pulsante N/A, CLO		
Dimming range	1...100%	%	

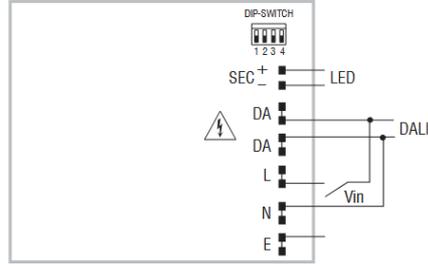
**Wiring and connections**

<b>Specification item</b>	<b>Value</b>	<b>Unit</b>	<b>Condition</b>
Input wire cross section	0.75...2.5 / 18...13	mm <sup>2</sup> / AWG	E - N - L, double connectors for looping
Input wire strip length	10...11	mm	
Output wires cross section	0.5...1.5 / 20...15	mm <sup>2</sup> / AWG	LED
Output wire strip length	8...9	mm	
Control wire cross section	0.5...1.5 / 20...15	mm <sup>2</sup> / AWG	DA/N - DA/Ls double connectors for looping
Control wire strip length	8...9	mm	
Max. cable length		cm	Max. LED distance see page info 8

Wiring diagrams

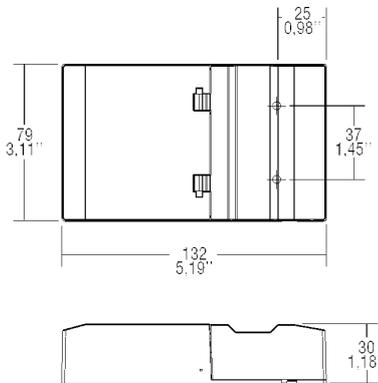


DALI diagram - Collegamento DALI



PUSH SWITCH diagram - Collegamento PUSH SWITCH

Dimensions



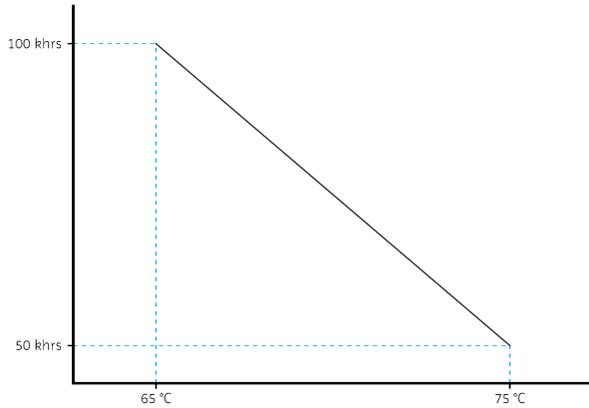
Insulation

Specification item	Output	Controls	Earth
Input	double or reinforced	basic	double or reinforced
Output	N/A	double or reinforced	N/A
Control			double or reinforced

Operation temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-20...50	°C	
Tc	75	°C	Maximum temperature measured at Tc point
Maximum housing temperature	110	°C	In case of failure

**Temperature/Life**



**Storage temperature and humidity**

Specification item	Value	Unit	Condition
Ambient temperature	-30...85	°C	
Relative humidity	5...85	%	Non condensing

**Programmable features**

Specification item	Available	Default setting	Condition
Set Adjustable Output Current (AOC)	DIP-SWITCH	125mA	
Constant Light Output (CLO)	Yes	OFF	
Push Switch	Yes	ON	
Min Dimming Level	Yes	1%	
DALI part 251	Yes	OFF	

**Features**

<b>Specification item</b>	<b>Value</b>	<b>Condition</b>
Open load	Yes	
Short circuit	Yes	
Over load and thermal protection	Yes	C.5.a
Hot plug	No	
Suitable for fixtures with protection class	class I/II	
Emergency Lighting (EL)	Yes	
DALI part 101	Yes	
DALI part 102	Yes	
DALI part 207	Yes	
DALI part 252	Yes	
DALI part 253	Yes	

**In rush current**

<b>Specification item</b>	<b>Value</b>	<b>Unit</b>	<b>Condition</b>
In rush current	5/50	A / usec	
Drivers / MCB 16A type B	50	pcs	

**Driver touch current / protective conductor current**

<b>Specification item</b>	<b>Value</b>	<b>Unit</b>	<b>Condition</b>
Typical Protective Conductor Current	0,2	mA	

**Surge immunity**

<b>Specification item</b>	<b>Value</b>	<b>Unit</b>	<b>Condition</b>
Mains surge immunity (diff. mode)	2	kV	
Mains surge immunity (comm. mode)	4	kV	

## Application info

Specification item	Value
Approval marks	CE ENEC EAC RCM (DO NOT COVER) UKCA
Ingress Protection classification (IP)	20
Application	Compact dimmable indoor
Mounting type	Independent
Cut hole diameter	Ø88

## Performance curves

