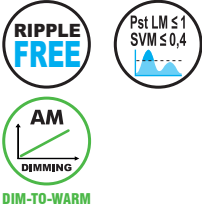


STMR DALI NFC

Direct current dimmable electronic drivers with NFC
Alimentatori elettronici regolabili in corrente continua con NFC

Made in Italy 



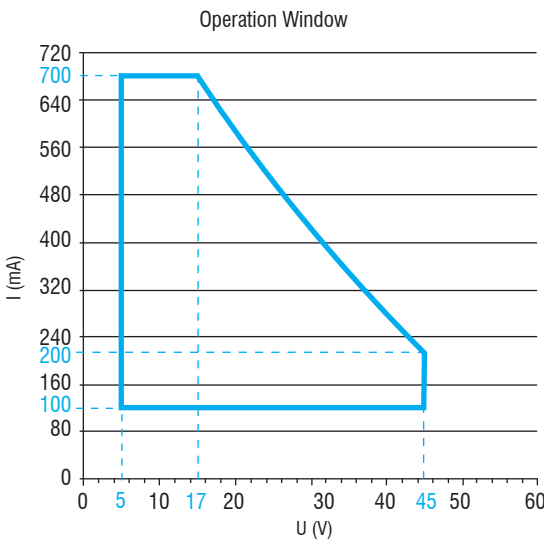
Article Articolo	Code Codice	P out W	V out DC	I out DC	U out V	ta °C	tc °C	λ max. Power Factor	η max. Efficiency ⁽¹⁾
STMR DALI NFC	142180	0,5...12	5...45	100...700 mA cost.	54	-20...+45	90	0,95 ⁽³⁾	> 86 %

⁽¹⁾ Referred to $V_{in} = 230$ V, 100% load - Riferito a $V_{in} = 230$ V, carico 100%

⁽³⁾ $P_{out} > 7$ W

Light output level in DC operation: Factory default 100% EoFi=1

Livello di emissione luminosa in funzionamento DC: Impostazioni di fabbrica 100% EoFi=1



Rated Voltage
Tensione Nominale
220 ÷ 240 V

Frequency
Frequenza
50-60 Hz

AC Operation range
Tensione di utilizzo AC
198 ÷ 264 V

DC Operation range
Tensione di utilizzo DC
(see page info15)
176 ÷ 275 V

(NO PUSH mode function)

Power - Potenza
0,5 ÷ 12 W

iTHD
≤ 15% ⁽¹⁾

Stand by power
≤ 0,5 W

Output current ripple
≤ 3% ⁽¹⁾

Standards compliance

- EN 55015
- EN 61000-3-2
- EN 61000-3-3
- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 62386-101
- EN 62386-102
- EN 62386-207
- EN 62386-251
- EN 62386-252
- EN 62386-253

Max. pcs for CB B16A
(see page info17)
50 pcs

In rush current
5A 50µsec

Features

- Driver for built-in use.
- It can be used for lighting equipment in protection class I and II.
- Supplied with connecting leads (2x0,75 mm² L-N, DA-DA) on primary.
- Supplied with connecting leads (2x0,5 mm² SEC) on secondary.
- Ultra compact size.
- Protections:
 - against overheating and short circuits;
 - against mains voltage spikes;
 - against overloads.
- Current regulation -8 %... +5 % including temperature variations.

Caratteristiche

- Alimentatore da incorporare.
- Utilizzabile per apparecchi di illuminazione in classe di protezione I e II.
- Fornito di cavi di connessione (2x0,75 mm² L-N, DA-DA) su primario per il collegamento.
- Fornito di cavi di connessione (2x0,5 mm² SEC) su secondario per il collegamento.
- Dimensioni molto ridotte e compatte.
- Protezioni:
 - termica e cortocircuito;
 - contro le extra-tensioni di rete;
 - contro i sovraccarichi.
- Corrente regolata -8 %... +5 % incluse variazioni di temperatura.

The data shown are preliminary and may change - I dati riportati sono preliminari e potrebbero subire variazioni

3.1.2

Dimmable multipower drivers - Compact case - DALI
Alimentatori multipotenza regolabili - Formato compatto - DALI



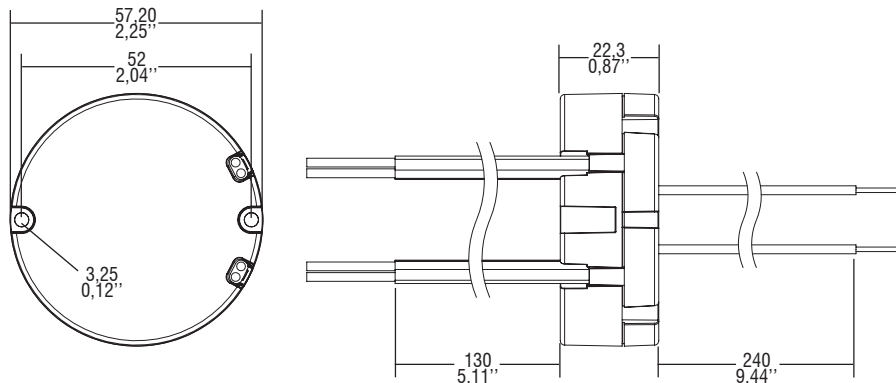
STMR DALI NFC

Direct current dimmable electronic drivers with NFC
Alimentatori elettronici regolabili in corrente continua con NFC

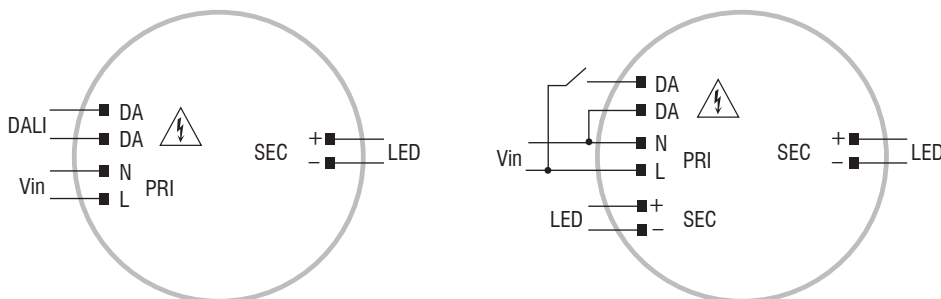
Made in Italy 


IP 20

SCREW FIXING
 Weight - Peso gr. 90 / 3,17 oz.
 Pcs - Pezzi 50

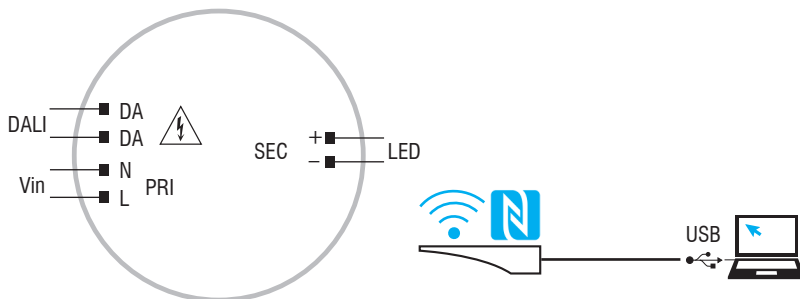


Wiring diagram - Schema di collegamento (Max. LED distance on page info8 - Massima distanza LED a pagina info8)



DALI diagram
Collegamento DALI

PUSH SWITCH diagram
Collegamento PUSH SWITCH



WIRELESS PROGRAMMING diagram
Collegamento per PROGRAMMAZIONE WIRELESS

Article - Articolo	Code - Codice
NFC-A PROGRAMMING TOOL FEIG ISC.PR101	127095A
NFC-B PROGRAMMING TOOL FEIG CPR30-USB	127101

[LINK TO DOWNLOAD PROGRAMMING SOFTWARE](#)
[LINK PER SCARICARE SOFTWARE DI PROGRAMMAZIONE](#)

Operation Mode

- **WIRELESS PROGRAMMING** through **NFC** antenna.
- Programmable features:
 - output current setting, step 1mA;
 - PUSH-SWITCH (enable/disable);
- Features DALI-2 dimming (0/1 - 100 %, minimum output current 5 mA):
 - memory function for sets or light groups;
 - recall of stored functions;
 - compatible with standard DALI interfaces.
- **Dimming method is AMPLITUDE.**
- Light regulation 0/1 - 100 % by means of PUSH SWITCH function (mains voltage):
 - a short push to turn on and off;
 - a longer push to increase or decrease light intensity;
 - regulation automatically stops at minimum and maximum values;
 - for another on, regulation or off command, release the push button and give the desired command again;
 - dimming level memory at mains restore.

For additional details for regulations see pages info12-14.

Modalità di funzionamento

- La **PROGRAMMAZIONE WIRELESS** avviene attraverso l'antenna **NFC**.
 - Caratteristiche programmabili:
 - settaggio corrente di uscita, step 1mA;
 - PUSH-SWITCH (abilitare/disabilitare);
 - Caratteristiche della regolazione DALI-2 (0/1 - 100 %, corrente minima d'uscita 5 mA):
 - funzione di memoria per scenari o gruppi luminosi;
 - richiamo di funzioni memorizzate;
 - compatibilità con interfacce DALI standard.
 - **La dimmerazione è in ampiezza.**
 - Regolazione della luminosità 0/1 - 100 % mediante la funzione PUSH SWITCH (tensione di rete):
 - una pressione breve per accendere e spegnere;
 - una pressione prolungata per aumentare o diminuire l'intensità luminosa;
 - la regolazione si ferma automaticamente ai valori minimi e massimi;
 - per un nuovo comando accensione, regolazione o spegnimento, rilasciare il pulsante e dare nuovamente il comando desiderato;
 - ripristino del livello di dimming al ritorno alimentazione.
- Per ulteriori dettagli sulle regolazioni vedi pagine info12-14.

3.1.2

Dimmable multipower drivers - Compact case - DALI
 Alimentatori multipotenza regolabili - Formato compatto - DALI

Software: TCI_NFC_READER

<https://win.tcisaronno.com/public/CMS/Files/11436/Setup-NFC-DALI-1-0-0-155.zip>



Product data

Specification item	Value	Unit
Product name	STMR DALI NFC	
Order code	142180	
EAN (GTIN)	8010703471443	
Pieces per box	50	
Made in	Italy	

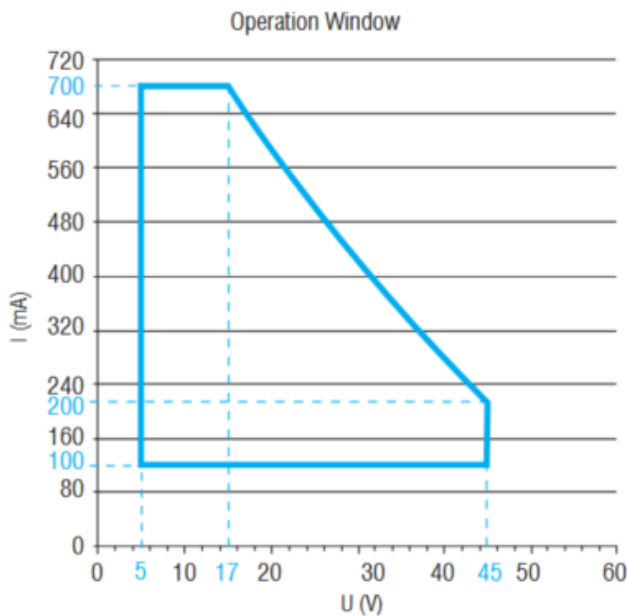
Electrical input data

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	0,060	A	Referred to Vin = 230 V, 100% load
Rated input power	13,95	W	Referred to Vin = 230V, 100% load
Power factor	0,45 C -0,98	λ	Pout > 7W 0,95
THD	< 15	%	Referred to Vin = 230 V, 100% load
Efficiency	86	%	Referred to Vin = 230 V, 100% load
Stand-by Power	< 0,5	W	
Isolation input to output	SELV		

Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant current		
Output voltage	5...45	Vdc	
Output voltage max.	54	V	Open load
Output current	100...700	mA	
Output current min programmable	100	mA	
Output current min dimming	5	mA	
Output current tolerance	5/8	%	
Output power	0,5...12	W	
Output current ripple	< 3	%	
Output Pst LM	< 1		
Output SVM	< 0,4		

Operating window (230V)



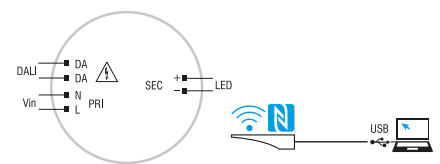
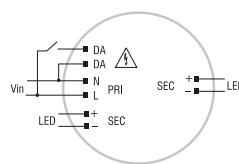
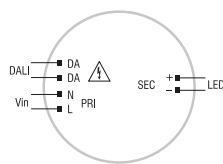
Electrical data controls input

Specification item	Value	Unit	Condition
Control method	DALI-2, PUSH SWITCH, CLO		
Dimming range	1...100%	%	

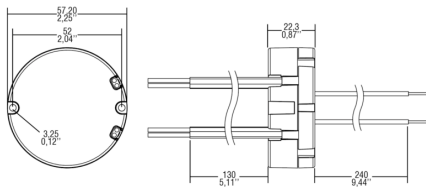
Wiring and connections

Specification item	Value	Unit	Condition
Input wire cross section	2x0,75	mm ²	L - N, length 130mm
Output wires cross section	2x0,5	mm ²	SEC, length 240mm
Control wire cross section	18	AWG	DA - DA, length 130mm
Max. cable length		cm	Max. LED distance see page info 8

Wiring diagrams



Dimensions



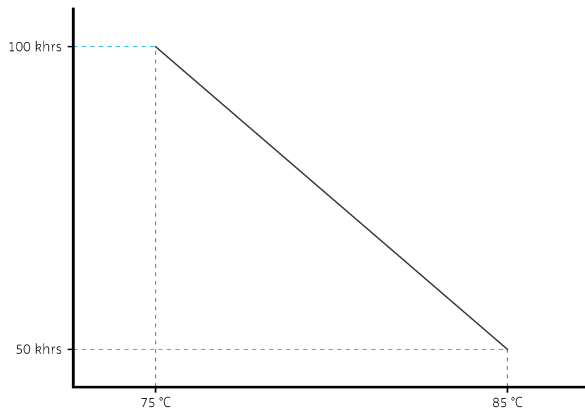
Insulation

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

Operation temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-20...45	°C	
Tc	90	°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)	NFC	300mA	
Constant Light Output (CLO)	Yes	OFF	
Adjustable Light Output (ALO)	Yes	OFF	
Push Switch	Yes	ON	
Min Dimming Level	Yes	1%	
DALI part 251	Yes	OFF	

Features

Specification item	Value	Condition
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	
DALI part 101	Yes	
DALI part 102	Yes	
DALI part 207	Yes	
DALI part 252	Yes	
DALI part 253	Yes	

In rush current

Specification item	Value	Unit	Condition
In rush current	4/50	A / usec	
Drivers / MCB 16A type B	50	pcs	

Driver touch current / protective conductor current

Specification item	Value	Unit	Condition
Typical Protective Conductor Current	0,05	mA	

Surge immunity

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

Application info

Specification item	Value
Approval marks	CE ENEC (PENDING), RCM (PENDING)
Ingress Protection classification (IP)	20
Application	Round dimmable indoor
Mounting type	Independent
Cut hole diameter	Ø57

Performance curves

