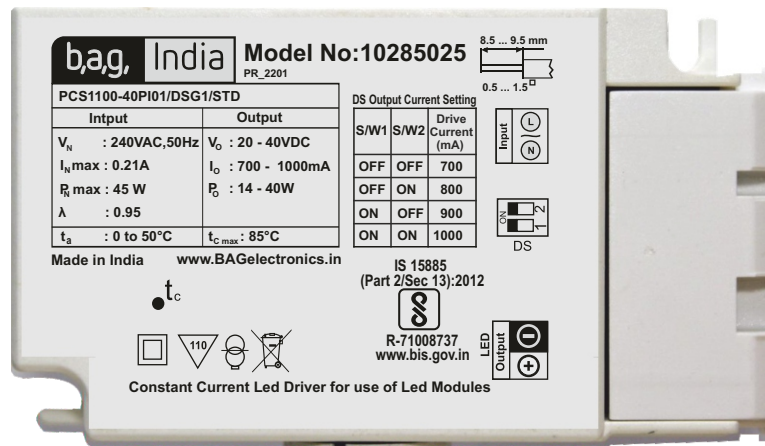


PCS - GEO-DS

Constant current control gear, 1-channel, non-dimmable



ECG versions

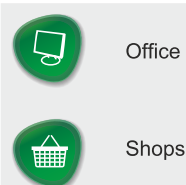
*Photograph is for viewing purpose. Technical data not to be drawn from this picture

Order no.	Model
10285025	LEDC PRE PCS1100-40-PI01/DSG1/2201/STD

Performance characteristics

- Non-dimmable 1-channel ECG for constant current operation of LED modules
- High efficiency >85 % (100 % load)
- Input voltage 160 - 300V
- Mains overvoltage protection upto 440 VAC
- Surge protection upto 4KV
- For use in combination with luminaires of protection class I
- ECG extensively protected against abnormal operating conditions at the output e.g. short-circuit, open circuit or overload.
- Conformance with international regulations, regarding safety and operation.
- Nominal service life: 30,000 hrs and operation at $t_c = t_{c,max}$
- Mains Overvoltage Shutdown above 300V

Applications



Markings



PCS - GEO-DS

Constant current control gear, 1-channel, non-dimmable Gen-3

General Technical Data

Mains voltage supply	
Rated voltage range	240 V
Rated frequency	50....60 Hz
Max. admissible input voltage range (AC)	160 - 300V
Total harmonic distortion (THD)	< 10%
Output data	
Constant current	
Output current tolerance	+/- 10 %
Galvanic separation to mains input	Basic Insulation (1.5kV)
Interfaces and dimming operation	
Dimming Interface depending on ECG model	None
Starting time	
Time to 100% luminous flux	< 1 sec
Power factor	
230 V (at full load)	> 0.95
Efficiency (Typ.)	
Full load	> 85%
Protection functions	
Open-circuit operation	<60VDC
Output short circuit operation	Ok
Connection Terminals	
For solid or stranded wire	
Type	Push terminal
Wire cross section	0.5 mm ² - 1.5 mm ²
Wire stripping length	8.5 mm - 9.5 mm
Wire lengths	
Max. wire length to LED module	< 2 m
Thermal protected device	
Max.surface temperature acc. EN 61347-2-13/C5C	+110° C
Degree of protection	
Degree of protection	IP 20
Surge Level	4KV

Temperatures (operation)

Order no.	Model	Ambient (t _a)	Case (t _c)
10285025	LEDC PRE PCS1100-40-PI01/DSG1/2201/STD	0° C...50° C	MAX.85° C

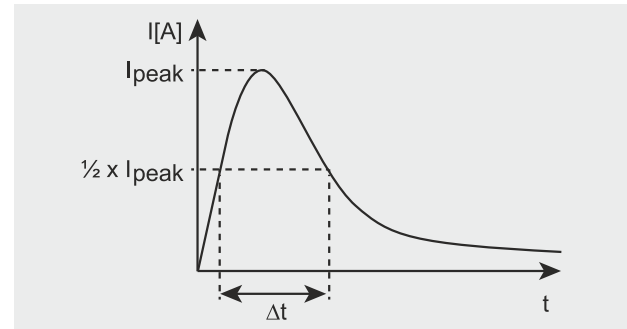
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Constant current control gear, 1-channel, non-dimmable

Circuit breaker / Inrush current

Model Description	typ. I _{peak} / Δt	No. of ECG at single-pole circuit breakers				
		LS-Type	10 A	16 A	20 A	25 A
10285025	35 A/49 us	B	47	75	94	118
		C	47	75	94	118

Typical current - time profile when switching on



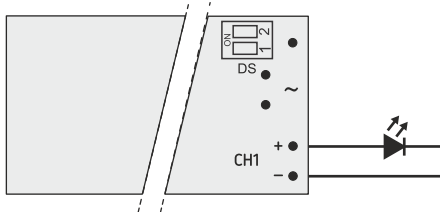
- Data for $U_{supply} = 230$ VAC, mains impedance = 1 Ω
- In case of multi-polar CB the maximum number is reduced by 20 %
- The max. number may differ depending on CB manufacturer. Please consider the specifications of the manufacturer.
- Basically, CB with C-characteristics are recommended to be used in lighting groups.

Operating data

Order No.	Model Description	Input power W	Power factor	ECG efficiency %	Output currents mA	Output voltage VDC	Total output power W
10285025	LEDC PRE PCS1100-40-PI01/DSG1/2201/STD	45	>0.95	85%	700-1000mA	20-40	40

All specifications with 240 VAC nominal operation and 100 % load

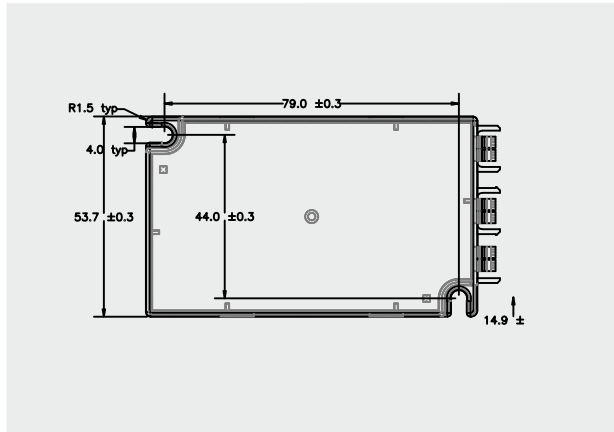
Wiring diagrams



PCS - GEO-DS

Constant current control gear, 1-channel, non-dimmable

Case drawing



Case Dimensions

Order no.	Length X mm	Width Y mm	Height Z mm	Hole spacing X _m (length direction) mm	Hole spacing Y _m (width direction) mm	Hole spacing Z _m (height direction) mm
10285025	95	53.7	25	78.5	44	-

Logistic data

Order no.	Model Description	Weight ECG kg	ECG Qty/ 1 Box PC	Dimensions packaging unit mm	Weight packaging unit kg	ECG Qty/ 1 Pallet PC
10285025	LEDC PRE PCS1100-40-PI01/DSG1/2201/STD	0.110	40	280x200x115	4.51	3080

Conformance with regulations (Compliance to relevant clauses)

IS15885(PART- 2/SEC 13)

EN 61347-1	General and safety requirements
EN 61347-2-13	Particular requirement for DC or AC supplied electronic control gear for LED modules
EN 62 384	Performance characteristics: DC or AC supplied electronic control gear for LED modules Module
EN 61 547	Equipment for general lighting purposes EMC immunity requirements

Environmental tests for mechanical capacity:

IEC 60068-2-6	Test Fc : vibrations (sinusoidal)
IEC 60068-2-27	Test Ea : shock and bump
IEC 60068-2-29	Test Eb : shock and bump

Quality management certified according to ISO 9001

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