

Active VCA2-123 PLUS



Built-in LEDSpot equipped with a reflector, heat sink and leads

Technical notes

Reflector: dia. 50mm
 COB pcb material: aluminium
 Heatsink material: aluminium
 Colour accuracy initially: 3 SDCM
 Fixation of the reflector: click-in
 Plastic clear cover to protect reflector
 Holder: PBT black
 Temperature depends on installation situation and has to be checked by the luminaire manufacturer
 Use of external LED constant-current drivers required
 Leads: Cu tinned, stranded conductors AWG22
 FEP-insulation and PVC sleeve length: 200 mm
 With integrated cord grip



Colour of components

Heatsink: black
 Holder: black
 Outer part of reflector: black
 Inner part of reflector: metallized

Electrical Characteristics

at $T_p=60^\circ\text{C}$

| Type | VOLTAGE DC (V) | | | | Power consumption (W) | | | |
|------------------------|----------------|------------|------------|------------|-----------------------|------------|------------|------------|
| | 200mA typ. | 250mA typ. | 300mA typ. | 350mA min. | 200mA typ. | 250mA typ. | 300mA typ. | 350mA min. |
| Engine/Active VCA2-123 | 33,7 | 34,3 | 34,8 | 35,2 | 6,7 | 8,6 | 10,4 | 12,3 |

Maximum Ratings

Exceeding the maximum ratings can lead to destruction of the module.

| Type | Ambient temperature range at T_c point | | Operation temperature range at T_c point | | Storage temperature | | Max. allowed repetitive peak current mA |
|------------------------|--|-----------------------|--|-----------------------|-----------------------|-----------------------|---|
| | $^\circ\text{C}$ min. | $^\circ\text{C}$ max. | $^\circ\text{C}$ min. | $^\circ\text{C}$ max. | $^\circ\text{C}$ min. | $^\circ\text{C}$ max. | |
| Engine/Active VCA2-123 | "-20" | 45 | "-25" | 80 | "-40" | 90 | 600 |

Engines max 300mA

| Type | Ref.No. | Colour | Correlated colour temperature | Typ luminous flux and efficacy at | | | | | | CRI |
|---------------------|---------|---------------|-------------------------------|-----------------------------------|------|-------------------|------|--------------------|------|-----|
| | | | | 200mA lm | lm/W | 250mA lm | lm/W | 300mA lm | lm/W | |
| | | | | Pel=6,7W/Vf=33,7V | | Pel=8,6W/Vf=34,3V | | Pel=10,4W/Vf=34,8V | | |
| Engine VCA2-123 927 | 571875 | warm white | 2700 | 1095 | 163 | 1095 | 127 | 1295 | 125 | 92 |
| Engine VCA2-123 930 | 572145 | warm white | 3000 | 955 | 143 | 1165 | 135 | 1380 | 133 | 92 |
| Engine VCA2-123 940 | 572146 | neutral white | 4000 | 980 | 146 | 1200 | 140 | 1420 | 137 | 92 |

Reflectors

| Ref.No. | For LED modules | Beam angle $^\circ$ | Cover | Optical efficiency % | Weight g |
|---------|------------------------|---------------------|-------|----------------------|----------|
| 603685 | Eng. VCA2-123/Eng. 6.2 | 16 | clear | 87 | 10 |
| 603687 | Eng. VCA2-123/Eng. 6.2 | 24 | clear | 86 | 10 |
| 604919 | Eng. VCA2-123/Eng. 6.2 | 40 | frost | 87 | 10 |
| 603686 | Eng. VCA2-123/Eng. 6.2 | 19 | frost | 86 | 10 |
| 603688 | Eng. VCA2-123/Eng. 6.2 | 26 | frost | 85 | 10 |
| 604920 | Eng. VCA2-123/Eng. 6.2 | 42 | frost | 85 | 10 |