



# Maxos LED

## 4MX850 491 LED55S/830 PSD DA20 SI

Maxos Led Industry, LED Module, system flux 5500 lm, 830 warm white, Power supply unit with DALI interface, Double asymmetric optic 20°, Silver

Customers in the industrial and retail sectors are looking for general lighting solutions with a justifiable payback, while meeting all relevant norms for supermarkets and industry applications. For a limited investment, Maxos LED Industry offers best-in-class energy savings while delivering high lux levels at the required color temperatures and glare factors. The minimalistic Maxos LED Industry system comprises exchangeable mid-power LED boards mounted on a standard Maxos trunking rail. A choice of wide and medium-beam lenses means flexibility in light distribution. Compared with a conventional fluorescent installation, this highly efficient LED solution offers full payback in less than three years. And the benefits keep coming: the use of our upgradable LED engine platform makes Maxos LED Industry a truly future-proof solution.

### Product data

| General Information      |                                                                                                                                                                                                                                                                                                              |  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Lamp family code         | LED55S [LED Module, system flux 5500 lm]                                                                                                                                                                                                                                                                     |  |
| Light source replaceable | No                                                                                                                                                                                                                                                                                                           |  |
| Number of gear units     | 1 unit                                                                                                                                                                                                                                                                                                       |  |
| Gear                     | -                                                                                                                                                                                                                                                                                                            |  |
| Driver included          | Yes                                                                                                                                                                                                                                                                                                          |  |
| Remarks                  | * -Per Lighting Europe guidance paper<br>"Evaluating performance of LED based<br>luminaires - January 2018": statistically<br>there is no relevant difference in lumen<br>maintenance between B50 and for<br>example B10. Therefore, the median useful<br>life (B50) value also represents the B10<br>value. |  |
| Service tag              | Yes                                                                                                                                                                                                                                                                                                          |  |
| Product family code      | 4MX850 [Maxos Led Industry]                                                                                                                                                                                                                                                                                  |  |
| Lighting Technology      | LED                                                                                                                                                                                                                                                                                                          |  |
| Value ladder             | Performance                                                                                                                                                                                                                                                                                                  |  |
| CE mark                  | Yes                                                                                                                                                                                                                                                                                                          |  |
| Warranty period          | 5 years                                                                                                                                                                                                                                                                                                      |  |
| Flammability mark        | -                                                                                                                                                                                                                                                                                                            |  |
| ENEC mark                | ENEC mark                                                                                                                                                                                                                                                                                                    |  |

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|                   |                                   |
|-------------------|-----------------------------------|
| Glow-wire test    | Temperature 650 °C, duration 30 s |
| EU RoHS compliant | Yes                               |

## Light Technical

|                                    |                                    |
|------------------------------------|------------------------------------|
| Luminous Flux                      | 5,200 lm                           |
| Correlated Color Temperature (Nom) | 3000 K                             |
| Luminous Efficacy (rated) (Nom)    | 160 lm/W                           |
| Color rendering index (CRI)        | ≥80                                |
| Number of light sources            | 1                                  |
| Beam angle of light source         | 120 degree(s)                      |
| Light source color                 | 830 warm white                     |
| Optic type                         | Double asymmetric optic 20°        |
| Optical cover type                 | Polymethyl methacrylate bowl/cover |
| Luminaire light beam spread        | 20°                                |
| Unified glare rating CEN           | Not applicable                     |

## Operating and Electrical

|                                          |                        |
|------------------------------------------|------------------------|
| Input Voltage                            | 220-240 V              |
| Line Frequency                           | 50 to 60 Hz            |
| Inrush current                           | 21 A                   |
| Inrush time                              | 0.280 ms               |
| Power Consumption                        | 32.5 W                 |
| Power Factor (Fraction)                  | 0.97                   |
| Connection                               | Connection unit 5-pole |
| Cable                                    | -                      |
| Number of products on MCB of 16 A type B | 24                     |

## Temperature

|                           |               |
|---------------------------|---------------|
| Ambient temperature range | -20 to +35 °C |
|---------------------------|---------------|

## Controls and Dimming

|                               |                                       |
|-------------------------------|---------------------------------------|
| Dimmable                      | Yes                                   |
| Driver/power unit/transformer | Power supply unit with DALI interface |
| Control interface             | DALI                                  |
| Constant light output         | No                                    |

## Mechanical and Housing

|                        |                         |
|------------------------|-------------------------|
| Housing Material       | Steel                   |
| Reflector material     | -                       |
| Optic material         | Polymethyl methacrylate |
| Optical cover material | Polymethyl methacrylate |
| Fixation material      | Steel                   |
| Housing Color          | Silver                  |
| Optical cover finish   | Clear                   |
| Overall length         | 1,478 mm                |

|                                     |                   |
|-------------------------------------|-------------------|
| Overall width                       | 63 mm             |
| Overall height                      | 50 mm             |
| Dimensions (Height x Width x Depth) | 50 x 63 x 1478 mm |

## Approval and Application

|                              |                                                   |
|------------------------------|---------------------------------------------------|
| Ingress protection code      | IP20 [Finger-protected]                           |
| Mech. impact protection code | IK02 [0.2 J standard]                             |
| Sustainability rating        | -                                                 |
| Protection class IEC         | Safety class I                                    |
| Photobiological risk         | Photobiological risk group 0 @200mm to<br>EN62778 |

## Initial Performance (IEC Compliant)

|                             |                        |
|-----------------------------|------------------------|
| Luminous flux tolerance     | +/-10%                 |
| Initial chromaticity        | (0.43, 0.40) SDCM <3.5 |
| Power consumption tolerance | +/-10%                 |

## Over Time Performance (IEC Compliant)

|                                                          |      |
|----------------------------------------------------------|------|
| Control gear failure rate at median useful life 50000 h  | 5 %  |
| Control gear failure rate at median useful life 100000 h | 10 % |
| Lumen maintenance at median useful life* 50000 h         | L90  |
| Lumen maintenance at median useful life* 100000 h        | L80  |

## Application Conditions

|                                    |                |
|------------------------------------|----------------|
| Performance ambient temperature Tq | 25 °C          |
| Maximum dim level                  | 1%             |
| Suitable for random switching      | Not applicable |

## Product Data

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Order product name              | 4MX850 491 LED55S/830 PSD DA20 SI |
| Full product name               | 4MX850 491 LED55S/830 PSD DA20 SI |
| Full product code               | 403073266265499                   |
| Order code                      | 66265499                          |
| Material Nr. (12NC)             | 910629125226                      |
| Numerator - Quantity Per Pack   | 1                                 |
| EAN/UPC - Product/Case          | 4030732662654                     |
| Numerator - Packs per outer box | 3                                 |
| EAN/UPC - Case                  | 4030732259717                     |

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### Dimensional drawing

