



# Maxos LED inserts for TTX400

## 4MX400 491 LED40S/830 PSD DA20 WH

Maxos LED Retrofit for TTX400, LED module, system flux 4000 lm, 830 warm white, Power supply unit with DALI interface, Double asymmetric optic 20°, White

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 inserts for TTX400 offer best-in-class energy savings while delivering high lux levels at the required color temperatures and glare factors. The minimalistic Maxos LED inserts for TTX400 comprise exchangeable mid-power LED boards to be mounted on a standard TTX400 trunking rail. A choice of wide, medium and double asymmetric 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: our upgradable LED engine platform makes Maxos LED inserts for TTX400 a truly future-proof solution.

### Product data

| General Information      |                                                                                                                        |                                                                                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lamp family code         | LED40S [LED module, system flux 4000 lm]                                                                               | there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represents the B10 value. |
| 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 luminaires - January 2018”: statistically |                                                                                                                                                                    |
| Service tag              | Yes                                                                                                                    |                                                                                                                                                                    |
| Product family code      | 4MX400 [Maxos LED Retrofit for TTX400]                                                                                 |                                                                                                                                                                    |
| Lighting Technology      | LED                                                                                                                    |                                                                                                                                                                    |
| Value ladder             | Performance                                                                                                            |                                                                                                                                                                    |
| CE mark                  | Yes                                                                                                                    |                                                                                                                                                                    |

Maxos LED inserts for TTX400

|                   |                                   |
|-------------------|-----------------------------------|
| Warranty period   | 5 years                           |
| Flammability mark | -                                 |
| ENEC mark         | ENEC mark                         |
| Glow-wire test    | Temperature 650 °C, duration 30 s |
| EU RoHS compliant | Yes                               |

Light Technical

|                                    |                                    |
|------------------------------------|------------------------------------|
| Luminous Flux                      | 3,800 lm                           |
| Correlated Color Temperature (Nom) | 3000 K                             |
| Luminous Efficacy (rated) (Nom)    | 158 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                              | 0.28 ms                |
| Power Consumption                        | 24 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                       | White             |
| Optical cover finish                | Clear             |
| Overall length                      | 1,474 mm          |
| Overall width                       | 63 mm             |
| Overall height                      | 50 mm             |
| Dimensions (Height x Width x Depth) | 50 x 63 x 1474 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          |

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              | 4MX400 491 LED40S/830 PSD DA20 WH |
| Full product name               | 4MX400 491 LED40S/830 PSD DA20 WH |
| Full product code               | 403073266317099                   |
| Order code                      | 910629128226                      |
| Material Nr. (12NC)             | 910629128226                      |
| Numerator - Quantity Per Pack   | 1                                 |
| EAN/UPC - Product/Case          | 4030732663170                     |
| Numerator - Packs per outer box | 3                                 |
| EAN/UPC - Case                  | 4030732260553                     |

## Maxos LED inserts for TTX400

### Dimensional drawing

