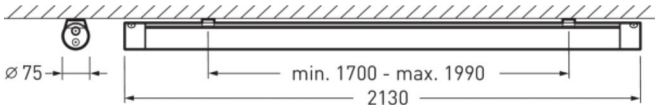
# TugraHE+ 21 PW 80-840 ET PC 23

TOC: 8025540





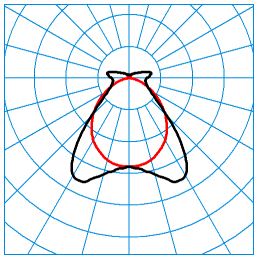

## Product features and key data

| | |
|---|---|
| **Luminaire type** | Multi-variable and modern tube luminaire with 75 mm profile diameter. |
| **Mounting method** | Surface-mounting\|Suspension |
| **Luminaire optic** | Cylindrical profile with photometrically effective prismatic structure as secondary optic. |
| **Connected load** | 42 W |
| **Power factor** | 0,97 |
| **Colour temperature** | 4.000 K |
| **Rated luminous flux** | 8.000 lm |
| **Luminous efficacy** | 190 lm/W |
| **Interchangeability lightsource** | Yes - interchangeable |
| **Service life** | L80 (25 °C) = 100.000 h |
| **Colour rendering index** | 80 |
| **Colour tolerance** | 3 SDCM |
| **Photobiological class** | Group 0 - no risk |
| **Luminaire colour** | RAL7035 Light grey |
| **Luminaire body** | Luminaire profile made of polycarbonate (PC). |
| **Electrical version** | With electronic transformer, switchable. |
| **Connection method** | Plug-in terminal |
| **Mains frequency** | 0/50/60 Hz |
| **Mains voltage** | 220 - 240 V |
| **Ingress Protection (IP) rating** | IP66 |
| **Protection rating on room side** | IP66 |
| **Protection class** | I |
| **Impact resistance (IK)** | IK10 |
| **Hot wire resistance** | 850 °C |
| **Ambient temperature** | -40 - 45 °C |
| **Max. Luminaires B10** | 22 |
| **Max. Luminaires B16** | 36 |
| **Max. Luminaires C10** | 38 |
| **Max. Luminaires C16** | 60 |
| **Net length** | 2.130 mm |
| **Net width** | 75 mm |
| **Net height** | 75 mm |
| **Outside diameter** | 75 mm |
| **Weight** | 4,4 kg |



All technical data including details of weight and dimensions have been compiled with all due care. Errors excepted. Product illustrations serve as examples and may differ from the original. We reserve the right to make alterations in the interest of improving our products.

## light distribution curve



**TugraHE+ 21 PW 80-840 ET PC 23**
**TX302786**

C0 - C180
C90 - C270

UGR I = 21,2
UGR q = 19,9
DIN 5040: B40
UTE: 0,86 D + 0,14 T
CEN Flux Code: 53 82 94 86 100 12 31 65 14

## Available accessories

| Material | Description |
|---|---|
| **Tugra ZLV/315/21**<br>8117500 | Through-wiring, 3-core. For luminaires from seriesTugra 21... . |
| **Tugra ZLV/515/21**<br>8117600 | Through-wiring, 5-core. For luminaires from seriesTugra 21... . |
| **Tugra ZLV/715/21**<br>8117700 | Through-wiring, 7-core. For luminaires from seriesTugra 21... . |
| **Tugra BLP 1165 PL**<br>8100300 | Blank module for continuous line applications. Cover of highly impact-resistant PMMA, opal. Module length 1165 mm. |
| **Tugra ZSDT/2000**<br>8117800 | Wire suspension for luminaires of series Tugra. With loop for ceiling suspension. With metal clamp for use of triangle. |
| **Tugra ZSDD/2000**<br>8117900 | Wire suspension for luminaires of series Tugra. With decorative ceiling connection. With threaded sleeve for attachment to mounting clip. |
| **Tugra ZSSD/2000**<br>8118000 | Wire suspension for luminaires of series Tugra. With loop for ceiling suspension. With threaded sleeve for attachment to mounting clip. |
| **Tugra ZBRS**<br>8118100 | Tube clip for wall and ceiling mounting and also suitable for suspended mounting by means of separate accessories. Packaging unit has 1 piece. |
| **Tugra ZBWM**<br>8118200 | Pivotable mounting brackets for wall mounting. Packaging unit 2 pieces. |
| **Tugra ZB V2A**<br>8118300 | Standard stainless steel mounting clips (2 pieces, V2A) for wall and ceiling fixing with triangle for holding components for suspended mounting. |
| **Tugra ZB V4A**<br>8118400 | Stainless steel mounting clips (2 pieces, V4A) for wall and ceiling fixing with triangle for holding components for suspended mounting. Design is particularly suitable for use in environments with chlorine and saline atmospheres. |
| **Tugra ZBATL**<br>8118500 | Disassembly protection for horizontal wall mounting. 1 set= 2 pieces. |
| **Tugra ZSST/2000**<br>8118900 | Wire suspension for luminaires of series Tugra. With decorative ceiling connection. With metal clamp for use of triangle. |

## Offer text

Multi-variable and modern tube luminaire with 75 mm profile diameter. Suitable for use in HACCP, IFS version 6 and/or BRC Global Standard Food version 7 certified companies (DIN 10500). Luminaire with limited surface temperature in accordance with DIN EN 60598-2-24, suitable for use in work locations exposed to fire hazards. For wall and ceiling mounting. Standard stainless steel mounting clips (2 pieces, V2A) with triangle included in the scope of supply. Optional accessories enable further mounting concepts. As single luminaire or for continuous line use. The continuous mounting channel of the luminaire body enables very high flexibility in positioning the fixing points. The packaging is made of recyclable cardboard, plastic-free. Multiple packaging with 28 luminaires as well as project packaging with 108 luminaires per packaging unit further reduce the general consumption of resources in the overall process. Cylindrical profile with photometrically effective prismatic structure as secondary optic. With opal profile area above and translucent profile area below the mounting channel. With wide light distribution. With mainly direct light distribution. With slight indirect component for decorative surface illumination. Luminaire luminous flux 8000 lm, connected load 42,00 W, luminous efficiency of luminaire 190 lm/W. Light colour neutral white, correlated colour temperature (CCT) 4000 K, general colour rendering index (CRI) $R_a$ > 80.



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Colour locus tolerance (initial MacAdam) ≤ 3 SDCM, Mean rated service life L80($t_q$ 25 °C) = 100,000 h. The light source is replaceable according to the ecodesign requirements (VO (EU) 2019/2020). Luminaire profile made of polycarbonate (PC). End cap colour light grey, (RAL 7035). End cap made of thermoplastically fused PC / TPE with high-quality, matt surface structure and surface finish according to VDI24. The end cap is equipped with 3 self-sealing membranes for cable cross-sections 7 mm - 13 mm as well as 3 pre-stamped feed points for PG cable glands (M20/M25) for protection rating-compliant infeed (IP66). The end cap is connected to the profile cylinder via a bayonet lock. Standard end caps included. Luminaire length 2130 mm, Luminaire height 75 mm, Ø Luminaire body 75 mm. The gear tray is fixed to the luminaire profile with transparent devices to avoid shadowing. Permissible ambient temperature (ta) -40 °C - 45 °C. Safety class (EN 61140): I, protection rating (DIN EN 60529): IP66, impact resistance level in accordance with IEC 62262: IK10, testing temperature of wire glow test in accordance with IEC 60695-2-11: 850 °C. Weight: 4,4 kg. The connection is made by means of a plug-in terminal with mains forwarding equipment. The barrier free cable duct inside the luminaire profile facilitates the insertion of optional through-wiring or alternative uses, e.g. installing network cables. With electronic transformer, switchable. The luminaire is suitable for operation on a 230V direct voltage supply grid (DC). The ENEC certification by an independent testing laboratory is in preparation. The luminaire complies with the fundamental requirements of applicable EU regulations and product safety legislation and bears the CE symbol.

## EPREL ID

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