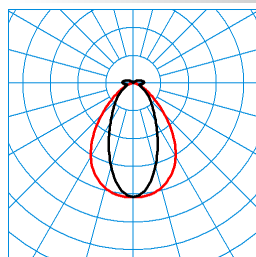## Product features and key data

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	38 W
Power factor	0,97
Colour temperature	4.000 K
Rated luminous flux	7.000 lm
Luminous efficacy	184 lm/W
Interchangeability lightsource	No - Protection against intrus
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
Electrical version	With electronic transformer, switchable.
Connection method	Connection cable
Mains frequency	0/50/60 Hz
Mains voltage	220 - 240 V
Ingress Protection (IP) rating	IP69K
Protection rating on room side	IP69K
Protection class	I
Impact resistance (IK)	IK03
Hot wire resistance	650 °C
Ambient temperature	-40 - 45 °C
Max. Luminaires B10	22
Max. Luminaires B16	36
Max. Luminaires C10	38
Max. Luminaires C16	60
Net length	1.780 mm
Net width	81 mm
Net height	81 mm
Outside diameter	81 mm
Weight	3,0 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+ 18 PN 70-840 ET IP69K 23
TX425166

UGR l = 20,2
UGR q = 18,1
DIN 5040: B50
UTE: 0,89 C + 0,11 T
CEN Flux Code: 64 87 95 89 100 6 21 56 11

■ C0 - C180
■ C90 - C270

Available accessories

	Material	Description
	Tugra KS 58 23 Set 8089100	PMMA end caps. For replacement or exchange. Colour light grey.
	Tugra LME HFS ET 130 23 8089900	Smart module for single luminaire applications. Colour light grey.
	Tugra LME HFS ETDD 130 23 8090700	Smart module for single luminaire applications. Colour light grey.
	Tugra LME LLWS 130 23 8091100	Smart module for single luminaire applications. Colour light grey.
	Tugra LME DMR 130 23 8091900	Smart module for single luminaire applications. Colour light grey.
	Tugra LME DMM 130 23 8092700	Smart module for single luminaire applications. Colour light grey.
	Tugra LME Beacon 130 23 8093500	Smart module beacon for single luminaire application and continuous line ends. Colour light grey.
	Tugra LMB 165 23 8094500	PMMA coupler long. Colour light grey (RAL 7035).
	Tugra LMB HFS ET 165 23 8095300	Smart module for continuous row applications. Colour light grey.
	Tugra LMB HFS ETDD 165 23 8096100	Smart module for continuous row applications. Colour light grey.
	Tugra LMB DMR 165 23 8096900	Smart module for continuous row applications Colour light grey.
	Tugra LMB DMM 165 23 8097700	Smart module for continuous row applications Colour light grey.
	Tugra LMB Beacon 165 23 8098500	Smart module beacon for continuous line applications. Colour light grey.
	Tugra BLP 322 PXX 8099200	Blank module for continuous line applications. With prismatic (underside) and opal (top) cover made of impact-resistant PC. Length 322 mm, Width 75 mm, height 75 mm.
	Tugra BLP 603 PXX 8099600	Blank module for continuous line applications. With prismatic (underside) and opal (top) cover made of impact-resistant PC. Length 603 mm, Width 75 mm, height 75 mm.

	Tugra BLP 884 PXX 8100000	Blank module for continuous line applications. With prismatic (underside) and opal (top) cover made of impact-resistant PC. Length 884 mm, Width 75 mm, height 75 mm.
	Tugra BLP 1165 PXX 8100400	Blank module for continuous line applications. With prismatic (underside) and opal (top) cover made of impact-resistant PC. Length 1165 mm, Width 75 mm, height 75 mm.
	Tugra BLP 1446 PXX 8100800	Blank module for continuous line applications. With prismatic (underside) and opal (top) cover made of impact-resistant PC. Length 1446 mm, Width 75 mm, height 75 mm.
	Tugra BLP 1727 PXX 8101200	Blank module for continuous line applications. With prismatic (underside) and opal (top) cover made of impact-resistant PC. Length 1727 mm, Width 75 mm, height 75 mm.
	Tugra BLP 2008 PXX 8101600	Blank module for continuous line applications. With prismatic (underside) and opal (top) cover made of impact-resistant PC. Length 2008 mm, Width 75 mm, height 75 mm.
	Tugra ZLK 23 8102100	PMMA coupler short. Colour light grey (RAL 7035).

Offer text

Multi-variable and modern tube luminaire with 75 mm profile diameter. Suitable for use in HACCP, IFS and/or BRC Global Standard Food certified companies (DIN 10500). With limited surface temperature, suitable for use in fire hazardous areas according to DIN EN 60598-2-24. 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 symmetric narrow light distribution. With mainly direct light distribution. With slight indirect component for surface illumination. Luminaire luminous flux 7000 lm - , connected load 38,00 W, luminous efficiency of luminaire 184 lm/W. Light colour neutral white, correlated colour temperature (CCT) 4000 K, general colour rendering index (CRI) R_a > 80. Mean rated service life L80(t_q 25 °C) = 100,000 h. End cap colour light grey, (RAL 7035). Standard end caps included. Luminaire length 1780 mm, Luminaire height 81 mm, Ø Luminaire body 81 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): IP69K, impact resistance level in accordance with IEC 62262: IK03, testing temperature of wire glow test in accordance with IEC 60695-2-11: 650 °C. Weight: 3,0 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 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.