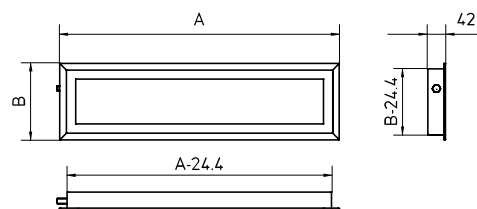


FLAT TEC

BUILT-IN PEAK PERFORMANCE.

Ideally, a luminaire should take up as little space as possible and offer a high efficiency. FLAT TEC not only provides the right illuminance for every machine. It also impressively demonstrates how much light you can generate with the minimum energy.

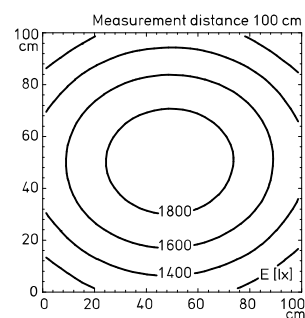
- Optimum efficiency at high ambient temperatures
- No interference with the moving parts of the machine
- No settlement of chips
- Extremely glare-free
- High system of protection
- For the toughest application conditions
- Resistance-tested with many cooling agents and lubricants



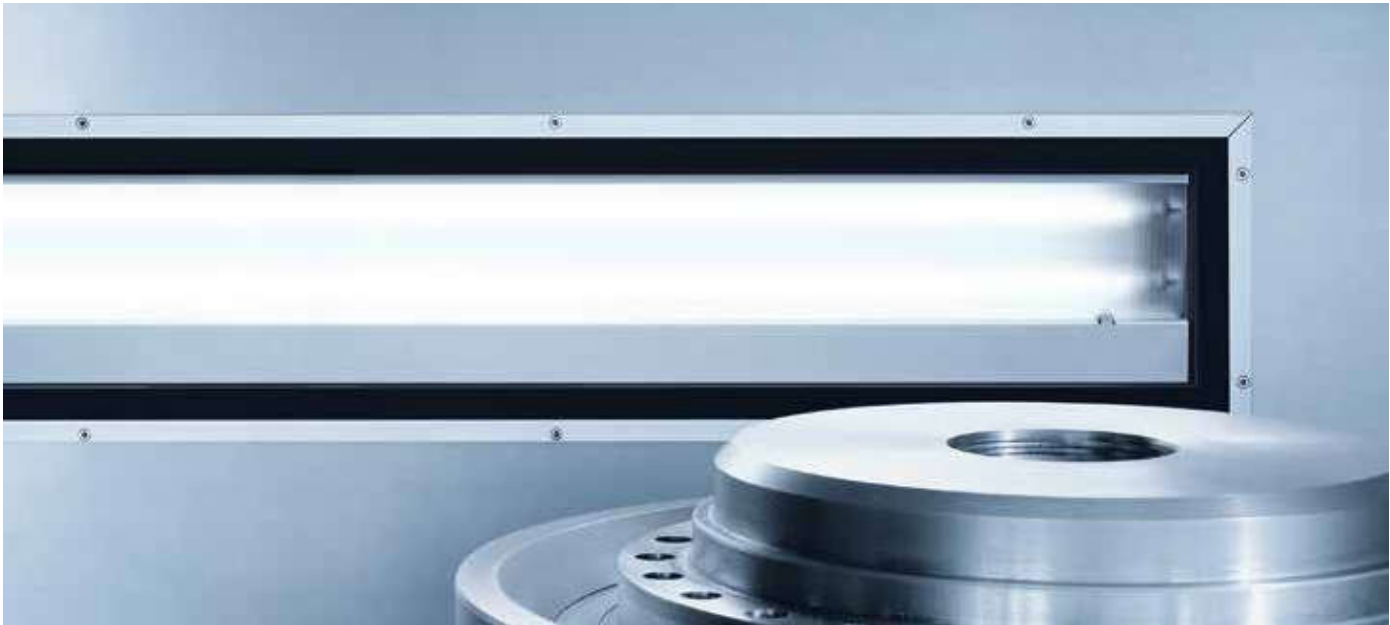
Tip: For the precise assembly dimensions, please request a detailed drawing.

Features at a glance

- TC-SEL compact fluorescent lamps or T16 fluorescent lamp(s)
- Color temperature daylight white 6,000 K (TC-SEL) or 6,500 K (T16)
- Glare-free thanks to conical prismatic screen (CDP)
- Colorless anodized aluminum housing, 3 mm thick safety glass
- Integration in recess with screws
- Without switch
- System of protection IP68-1m and IPX9K in accordance with DIN 40050-9; class of protection I
- Supplied without mains lead, connection via M12 plug connector
- Ready-made M12 plug socket as accessory



Illuminance based on the example
2 x 54 W


 Integrated
machine
luminaires

220 – 240 V, 50 HZ

FITTED WITH	OPERATING DEVICE	DIMENSIONS	SPECIAL FEATURE	E_m/E_{max}^*	MODEL	ORDER NO.
2 x 11 WTC-SEL	Integrated electronic ballast	A=340 mm x B=300 mm	–	304/388 lx ¹	MZEC 211 N	112 997 000 - 005 555 09
3 x 24 WT16	Integrated electronic ballast	A=660 mm x B=300 mm	–	1000/1274 lx ¹	MZE 324 N	112 999 000 - 005 555 16

100 – 250 V, 50/60 HZ

FITTED WITH	OPERATING DEVICE	DIMENSIONS	SPECIAL FEATURE	E_m/E_{max}^*	MODEL	ORDER NO.
1 x 24 WT16	Integrated electronic ballast	A=660 mm x B=180 mm	–	363/466 lx ¹	MZE 124 N	113 006 000 - 005 555 94
1 x 39 WT16	Integrated electronic ballast	A=960 mm x B=180 mm	–	601/766 lx ¹	MZE 139 N	113 009 000 - 005 556 34
1 x 54 WT16	Integrated electronic ballast	A=1260 mm x B=180 mm	–	874/1089 lx ¹	MZE 154 N	113 011 000 - 005 556 64
2 x 24 WT16	Integrated electronic ballast	A=660 mm x B=220 mm	–	669/863 lx ¹	MZE 224 N	113 002 000 - 005 555 45
2 x 39 WT16	Integrated electronic ballast	A=960 mm x B=220 mm	–	1096/1395 lx ¹	MZE 239 N	113 004 000 - 005 555 67
2 x 54 WT16	Integrated electronic ballast	A=1260 mm x B=220 mm	–	1546/1921 lx ¹	MZE 254 N	113 013 000 - 005 556 82

100 – 277 V, 50/60 HZ

cETLus-variantes (not CE-conform)

FITTED WITH	OPERATING DEVICE	DIMENSIONS	SPECIAL FEATURE	E_m/E_{max}^*	MODEL	ORDER NO.
1 x 24 WT16	Integrated electronic ballast	A=660 mm x B=180 mm	–	363/466 lx ¹	MZE 124 N	113 007 000 - 005 556 03
1 x 39 WT16	Integrated electronic ballast	A=960 mm x B=180 mm	–	601/766 lx ¹	MZE 139 N	113 010 000 - 005 556 40
1 x 54 WT16	Integrated electronic ballast	A=1260 mm x B=180 mm	–	874/1089 lx ¹	MZE 154 N	113 012 000 - 005 556 73
2 x 24 WT16	Integrated electronic ballast	A=660 mm x B=220 mm	–	669/863 lx ¹	MZE 224 N	113 003 000 - 005 555 54
2 x 39 WT16	Integrated electronic ballast	A=960 mm x B=220 mm	–	1096/1395 lx ¹	MZE 239 N	113 005 000 - 005 555 70
2 x 54 WT16	Integrated electronic ballast	A=1260 mm x B=220 mm	–	1546/1921 lx ¹	MZE 254 N	113 014 000 - 005 556 88

24 VDC

FITTED WITH	OPERATING DEVICE	DIMENSIONS	SPECIAL FEATURE	E_m/E_{max}^*	MODEL	ORDER NO.
2 x 11 WTC-SEL	Integrated electronic ballast	A=340 mm x B=300 mm	–	304/388 lx ¹	MZEC 211 S	112 997 000 - 005 555 03
1 x 24 WT16	Integrated electronic ballast	A=660 mm x B=180 mm	–	363/466 lx ¹	MZE 124 S	112 995 000 - 005 554 56
1 x 39 WT16	Integrated electronic ballast	A=960 mm x B=180 mm	–	601/766 lx ¹	MZE 139 S	112 996 000 - 005 554 81

* E_m = medium illuminance; E_{max} = maximum illuminance; ¹ Measuring range 100 cm x 100 cm / Measuring distance 100 cm

Also available as a surface-mounted luminaire

FLAT TEC

THE ULTIMATE IN LIGHTING AND HOUSING TECHNOLOGY.

No light without energy. With this in mind, FLAT TEC skillfully uses as little energy as possible to generate the maximum amount of light. It does so with a housing shape that is so flat that it doesn't even appear obtrusive when positioned as a surface-mounted luminaire in the center of activity.

- Maximum light with minimum energy consumption
- For the toughest application conditions
- Hardly any interference with the moving parts of the machine
- Resistance-tested with many cooling agents and lubricants
- Extremely glare-free
- Optimum efficiency at high ambient temperatures
- High system of protection





efficientLight



Tip: For the precise assembly dimensions, please request a detailed drawing.

Integrated machine luminaires

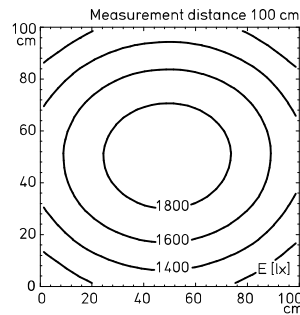


Surface-mounted luminaires



Features at a glance

- TC-SEL compact fluorescent lamps or T16 fluorescent lamp(s)
- Color temperature daylight white 6,000 (TC-SEL) or 6,500 K (T16)
- Glare-free thanks to conical prismatic screen (CDP)
- Aluminum colored anodized housing, 3 mm thick safety glass
- Screw-mounted
- Without switch
- System of protection IP68-1m and IPX9K in accordance with DIN 40050-9; class of protection I
- Supplied without mains lead, connection via M12 plug connector
- Ready-made M12 plug socket as accessory



Illuminance based on the example
2 x 54 W

220 – 240 V, 50 HZ

FITTED WITH	OPERATING DEVICE	DIMENSIONS	SPECIAL FEATURE	E_m/E_{max}^*	MODEL	ORDER NO.
2 x 11 W TC-SEL	Integrated electronic ballast	A = 340 mm x B = 300 mm	–	304/388 lx ¹	MZAC 211 N	112 997 000 - 005 555 12
3 x 24 W T16	Integrated electronic ballast	A = 660 mm x B = 300 mm	–	1000/1274 lx ¹	MZA 324 N	112 999 000 - 005 555 19

100 – 250 V, 50/60 HZ

FITTED WITH	OPERATING DEVICE	DIMENSIONS	SPECIAL FEATURE	E_m/E_{max}^*	MODEL	ORDER NO.
1 x 24 W T16	Integrated electronic ballast	A = 660 mm x B = 180 mm	–	363/466 lx ¹	MZA 124 N	113 006 000 - 005 556 00
1 x 39 W T16	Integrated electronic ballast	A = 960 mm x B = 180 mm	–	601/766 lx ¹	MZA 139 N	113 009 000 - 005 556 37
1 x 54 W T16	Integrated electronic ballast	A = 1260 mm x B = 180 mm	–	874/1089 lx ¹	MZA 154 N	113 011 000 - 005 556 67
2 x 24 W T16	Integrated electronic ballast	A = 660 mm x B = 220 mm	–	669/863 lx ¹	MZA 224 N	113 002 000 - 005 555 48
2 x 39 W T16	Integrated electronic ballast	A = 960 mm x B = 220 mm	–	1096/1395 lx ¹	MZA 239 N	113 004 000 - 005 555 61
2 x 54 W T16	Integrated electronic ballast	A = 1260 mm x B = 220 mm	–	1546/1921 lx ¹	MZA 254 N	113 013 000 - 005 556 85

100 – 277 V, 50/60 HZ

cETLus-variants (not CE-conform)

FITTED WITH	OPERATING DEVICE	DIMENSIONS	SPECIAL FEATURE	E_m/E_{max}^*	MODEL	ORDER NO.
1 x 24 W T16	Integrated electronic ballast	A = 660 mm x B = 180 mm	–	363/466 lx ¹	MZA 124 N	113 007 000 - 005 556 06
1 x 39 W T16	Integrated electronic ballast	A = 960 mm x B = 180 mm	–	601/766 lx ¹	MZA 139 N	113 010 000 - 005 556 43
1 x 54 W T16	Integrated electronic ballast	A = 1260 mm x B = 180 mm	–	874/1089 lx ¹	MZA 154 N	113 012 000 - 005 556 76
2 x 24 W T16	Integrated electronic ballast	A = 660 mm x B = 220 mm	–	669/863 lx ¹	MZA 224 N	113 003 000 - 005 555 58
2 x 39 W T16	Integrated electronic ballast	A = 960 mm x B = 220 mm	–	1096/1395 lx ¹	MZA 239 N	113 005 000 - 005 555 73
2 x 54 W T16	Integrated electronic ballast	A = 1260 mm x B = 220 mm	–	1546/1921 lx ¹	MZA 254 N	113 014 000 - 005 556 91

24 VDC

FITTED WITH	OPERATING DEVICE	DIMENSIONS	SPECIAL FEATURE	E_m/E_{max}^*	MODEL	ORDER NO.
2 x 11 W TC-SEL	Integrated electronic ballast	A = 340 mm x B = 300 mm	–	304/388 lx ¹	MZAC 211 S	112 997 000 - 005 555 06
1 x 24 W T16	Integrated electronic ballast	A = 660 mm x B = 180 mm	–	363/466 lx ¹	MZA 124 S	112 995 000 - 005 554 69
1 x 36 W T16	Integrated electronic ballast	A = 960 mm x B = 180 mm	–	601/766 lx ¹	MZA 139 S	112 996 000 - 005 554 84

* E_m = medium illuminance; E_{max} = maximum illuminance; ¹ Measuring range 100 cm x 100 cm / Measuring distance 100 cm
Also available as an integrated machine luminaire