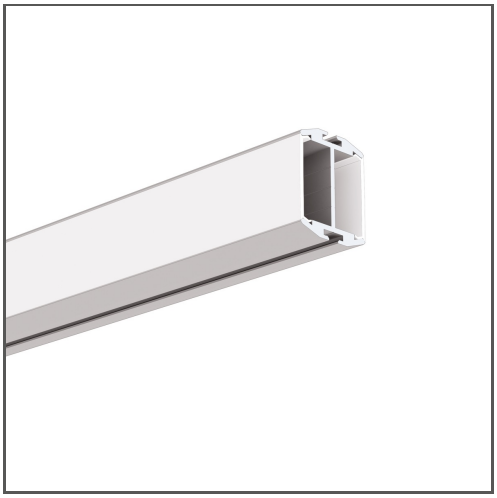
GIZA-DUO-LL Extrusion

Ref. A02162



KEY FEATURES

- Ease of creating geometric figures
- Up/down lighting
- Small bending radius
- Possibility to use current modules with efficiency up to 190lm/W and CRI>90. Available upon request.

APPLICATION

decorative lighting i główne

MOUNTING

suspended, using dedicated accessories

ADDITIONAL INFORMATION

- when choosing a different length of profiles / covers than available in the standard, you should additionally choose the cutting service at KLUŚ

IP PROTECTION RATING

IP20 IP65

MOUNTING METHOD

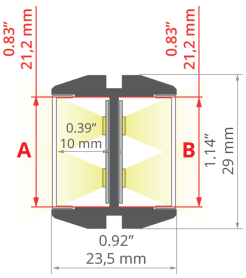
Suspended

SPECIAL FEATURES

Possibility of twisting

Possibility of bending

TECHNICAL DRAWING



AVAILABLE COLOURS

COLOR	LENGTH	REF
silver anodized	78.9"	A02162A_2
	118.5"	A02162A_3
white lacquered	78.9"	A02162L10OD_2
black anodized		A02162A07_2
	118.5"	A02162A07_3

TECHNICAL SPECIFICATIONS

Material	aluminum
Possible fixture IP	20, 65
Possible fixture shapes	linear, polygonal, round
Profile cross-section	rectangular
Width	0.9"
Height	1.1"
LED gluing width A	0.8"
LED gluing width B	0.8"
Max. number of LED strips A (0.31" wide)	2
Max. number of LED strips B (0.31" wide)	2
Width of the glow	22 mm
Max power of a single KLUŚ LED strip	7.3 W/ft
Possibility of twisting	yes
Possibility of obtaining a line of light	yes
Possibility of bending	yes
Radius of the light arc	yes
Inward	240 mm
Outdoor	240 mm
Downward light arc radius	yes
Down	1000 mm
Building type	Entertainment/ Arts, Hotel / Restaurant, Commercial, Retail
Facility zone	office, lobby / foyer, decorative, fitness / spa, media rooms / av
The cover is cut to the length of the profile	yes
Can be easily connected into runs	yes
Wire out back of extrusion	yes
Two directional lighting for suspended fixtures	yes

RELATED ACCESSORIES > COVERS

NAME	KEY FEATURES	MATERIAL	MATERIAL TRANSMITTANCE	COLOR	REF.
			22 %	black	B17032B
LIGER-22 Cover	- hight light quality - For indoor and outdoor applications - Ease of obtaining a line of light - perfectly diffusing	PC	70 %	satin	B17032S

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NAME	KEY FEATURES	MATERIAL	MATERIAL TRANSMITTANCE	COLOR	REF.
HS-22 Cover	- For indoor and outdoor applications - UV resistant	PC	65 %	frosted	B17011F
			88 %	clear	B17011C
			90.5 %	microprism	B17011M
BENCO-22 Cover	- For indoor and outdoor applications - UV resistant	Silikon	62 %	frosted	B17209F

LINE OF LIGHT TABLE

LED TAPE	LIGER-22 SATIN	HS-22 FROSTED	G-22S SATIN	G-22R SATIN
K-0360-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-0720-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-1080-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-HD-0430-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-HD-0830-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-HD-1260-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
KWP-0360-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
KWP-0720-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
KWP-1080-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
KWP-GHD-0430-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
KWP-GHD-0830-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
KWP-GHD-1260-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-CR-1220-24	✓ (2)	X	✓ (1)	✓ (1)
K-CR-1275-24	✓ (2)	X	✓ (1)	✓ (1)
K-CRHD-1820-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-CRHD-1910-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-HEHD-0480-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-HEHD-0960-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-HEHD-1440-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-HEHD-1920-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-HEHD-0320-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-RGBW-1920-120-24	✓ (2)	X	✓ (1)	✓ (1)
K-SD-1440-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-RGBW-1920-160-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
KWP-GRGBW-1920-120-24	✓ (2)	X	✓ (1)	✓ (1)
K-SDCR-22T50-1530-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
KWP-SDCR-22T50-1530-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)

Description

✓ - Line of Light for a number (X) of rows - Pixel free imaging
X - Visible Dotting from Diodes
HL - Centered Line of Light - Concentrated in middle
HL (X) - Centered Line of Light for a number (X) of rows - Concentrated in middle

Line of Light Guide



Clean Line of Light (Pixel free imaging)



Centered Line of Light



Visible Dotting from Diodes

RELATED ACCESSORIES > END CAPS

NAME	MATERIAL	COLOR	REF.
GIZA-DUO-LL End cap 	ABS	black	C24372C07
		gray	C24372C02
		silver	C24372L01
		white	C24372L10

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RELATED ACCESSORIES > OTHER ACCESSORIES > CANOPIES

NAME	KEY FEATURES	MATERIAL	COLOR	REF.
Fi-60mm Canopy	- Convenient cable length adjustment, in the ZM system	steel	gray lacquered white lacquered black lacquered	C24540L01 C24540L10 C24540L07

RELATED ACCESSORIES > OTHER ACCESSORIES > FASTENERS AND HEADS FOR EXTRUSIONS

NAME	KEY FEATURES	MATERIAL	COLOR	REF.
BZP Head		stainless steel	silver	C28113N00
FI-8-LIN-ZM Fastener	- Installation in the ZM system	stainless steel, PA	silver white black	C28170N00 C28170L10 C28170L07
FI-10-ZM-P Fastener	- Cross mounting	stainless steel	silver	C28117N00
FI-10-ZM-W Fastener		stainless steel	silver	C28116N00
FI-8-PRET-ZM Fastener	- Installation in the ZM system	stainless steel aluminum aluminum	silver white black	C28189N00 C28189L10 C28189L07

RELATED ACCESSORIES > OTHER ACCESSORIES > CONDUCTIVE FASTENERS AND HEADS FOR EXTRUSIONS

NAME	KEY FEATURES	MATERIAL	COLOR	REF.
BZP-ZZ Head		stainless steel	gray	42215
OS22-LIN-Z Fastener	- Power supply cable	stainless steel, PA	white black	C28184L10 C28184L07
OS22-PRET-Z Fastener	- Power supply rod	PA, stainless steel	white black	C28186L10 C28186L07
OS22-DUO-PRET-Z Fastener	- Power supply cable, two poles	stainless steel, PA	white black	C28185L10 C28185L07
OS22-DUO-LIN-Z Fastener	- Power supply cable, two poles	stainless steel, PA	white black	C28183L10 C28183L07
FI-8-LIN-ZMZ Fastener	- Power supply - mounting in the ZM system	stainless steel, steel, PA, EPDM aluminum, PA, EPDM aluminum, PA, EPDM	silver white black	C28171N00 C28171L10 C28171L07
PUSZ-PRET-ZM Fastener	- Power supply cable - mounting in the ZM system	stainless steel, brass, nylon aluminum, brass, nylon aluminum, brass, nylon	silver white black	C28161N00 C28161L10 C28161L07
PUSZ-ZM Fastener	- Power supply - mounting in the ZM system	stainless steel aluminum aluminum	silver white lacquered black lacquered	C20010N00 C20010L10 C20010L07

RELATED ACCESSORIES > OTHER ACCESSORIES > CONNECTORS

NAME	KEY FEATURES	MATERIAL	COLOR	REF.
ZM Connector		stainless steel	silver	42720 42728 C28070N00 C28071N00 C28072N00 C28073N00 C28074N00 C28075N00 C28243N00
Connector ZM-G		stainless steel	silver	42304 42308 42310 42324 42326 42328 42330 42332 42334 42336 42338
ZM-PION Connector	- for connecting profiles in the vertical plane	stainless steel	silver	42314 42316 42320 42718 42719 C28084N00 C28085N00 C28086N00 C28087N00 C28088N00

RELATED ACCESSORIES > OTHER ACCESSORIES > SUSPENSION AND MOUNTING SETS

NAME	KEY FEATURES	MATERIAL	COLOR	REF.
RD-1 Fastener set	- Smooth cable adjustment, cable included	brass	silver glossy silver satin white lacquered black lacquered	C28231P00 C28231P01 C28231L10 C28231L07
RG-1 Fastener set	- Cable adjustment at the ceiling, cable included	brass	silver glossy black colored	C28230P00 C28230L07

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NAME	KEY FEATURES	MATERIAL	COLOR	REF.
FI-8-ZM-1 Fastener set	- Power supply, for wall and drywall, in the ZM system	stainless steel, aluminum	silver white lacquered black lacquered	C28134N00 C28134L10 C28134L07
FI-8-ZM-2 Fastener set	- Convenient cable length adjustment, in the ZM system	stainless steel, aluminum	silver white lacquered black lacquered	C28135N00 C28135L10 C28135L07
Fastener set PUSZ-ZM-1	- Power supply, for wall and drywall, in the ZM system	stainless steel, aluminum	silver white lacquered black lacquered	C28130N00 C28130L10 C28130L07
Fastener set PUSZ-ZM-2	- Convenient cable length adjustment, in the ZM system	stainless steel, aluminum	silver white lacquered black lacquered	C28131N00 C28131L10 C28131L07

RELATED ACCESSORIES > OTHER ACCESSORIES > SECURITY AND BLOCKS

NAME	KEY FEATURES	MATERIAL	COLOR	REF.
Block ZM, gray	- Accessory locking in the ZM system	silicon	gray	C28194N00

RELATED ACCESSORIES > RELATED LED > HIGH EFFICACY

NAME	KEY FEATURES	IP PROTECTION RATING	POWER CONSUMPTION	REF.
K-HEHD-0320-24 LED tape	- CRI over 95 - High Efficacy	20	1 W/ft	K-HEHD27-0320-24 K-HEHD30-0320-24 K-HEHD35-0320-24 K-HEHD40-0320-24
K-HEHD-0480-24 LED tape	- CRI over 95 - High Efficacy	20	1.5 W/ft	K-HEHD22-0480-24 K-HEHD25-0480-24 K-HEHD27-0480-24 K-HEHD30-0480-24 K-HEHD35-0480-24 K-HEHD40-0480-24 K-HEHD50-0480-24
K-HEHD-0960-24 LED tape	- CRI over 95 - High Efficacy	20	2.9 W/ft	K-HEHD22-0960-24 K-HEHD25-0960-24 K-HEHD27-0960-24 K-HEHD30-0960-24 K-HEHD35-0960-24 K-HEHD40-0960-24 K-HEHD50-0960-24
K-HEHD-1440-24 LED tape	- CRI over 95 - High Efficacy	20	4.4 W/ft	K-HEHD22-1440-24 K-HEHD25-1440-24 K-HEHD27-1440-24 K-HEHD30-1440-24 K-HEHD35-1440-24 K-HEHD40-1440-24 K-HEHD50-1440-24
LED tape K-HEHD-1920-24	- CRI over 95 - High Efficacy	20	5.9 W/ft	K-HEHD22-1920-24 K-HEHD25-1920-24 K-HEHD27-1920-24 K-HEHD30-1920-24 K-HEHD35-1920-24 K-HEHD40-1920-24 K-HEHD50-1920-24

RELATED ACCESSORIES > RELATED LED > CRI 95+

NAME	KEY FEATURES	IP PROTECTION RATING	POWER CONSUMPTION	REF.
K-CR-1210-24 LED tape	- CRI over 95	20	1.5 W/ft	K-CR22-1210-24 K-CR27-1210-24
K-CRHD-1910-24 LED tape	- CRI over 95 - high LED density	20	2.8 W/ft	K-CRHD27-1910-24 K-CRHD35-1910-24 K-CRHD40-1910-24
K-CR-1220-24 LED tape	- CRI over 95	20	2.9 W/ft	K-CR22-1220-24 K-CR25-1220-24 K-CR27-1220-24 K-CR30-1220-24 K-CR35-1220-24 K-CR40-1220-24 K-CR50-1220-24
K-CR-1275-24 LED tape	- CRI over 95	20	4.4 W/ft	K-CR22-1275-24 K-CR25-1275-24 K-CR27-1275-24 K-CR30-1275-24 K-CR35-1275-24 K-CR40-1275-24 K-CR50-1275-24
K-CRHD-1820-24 LED tape	- CRI over 95 - high LED density	20	5.6 W/ft	K-CRHD27-1820-24

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RELATED ACCESSORIES > RELATED LED > CRI 90+

NAME	KEY FEATURES	IP PROTECTION RATING	POWER CONSUMPTION	REF.
K-2400-24 LED tape	- high power	20	7.3 W/ft	K-27-2400-24 K-30-2400-24 K-35-2400-24 K-40-2400-24 K-50-2400-24
KWP-GHD-1910-24 LED tape	- high LED density	65	2.8 W/ft	KWP-GHD27-1910-24 KWP-GHD30-1910-24 KWP-GHD35-1910-24 KWP-GHD40-1910-24
KWP-GHD-1640-24 LED tape	- high LED density	65	5 W/ft	KWP-GHD22-1640-24 KWP-GHD25-1640-24 KWP-GHD27-1640-24 KWP-GHD30-1640-24 KWP-GHD35-1640-24 KWP-GHD40-1640-24 KWP-GHD50-1640-24

RELATED ACCESSORIES > RELATED LED > ADJUSTABLE WHITE / DIM TO WARM

NAME	KEY FEATURES	IP PROTECTION RATING	POWER CONSUMPTION	REF.
K-30/18-1770-010V-24V LED tape		20	3.5 W/ft	K-30/18-1770-010V-24V
K-30/18-1770-24V LED tape		20	3.5 W/ft	K-30/18-1770-24
K-SDCR-22T50-1530-24 LED tape	- Tuneable white 2200K-5000K	20	4.7 W/ft	K-SDCR-22T50-1530-24
KWP-30/18-1770-010-24 LED tape		65	3.5 W/ft	KWP-30/18-1770-010-24
KWP-30/18-1770-24 LED tape		65	3.5 W/ft	KWP-30/18-1770-24
KWP-SDCR-22T50-1530-24 LED tape	- Tuneable white 2200K-5000K	65	4.7 W/ft	KWP-SDCR-22T50-1530-24
KWP-G22/50-1728-24 LED tape	- Tuneable white 2200K-5000K	65	5.3 W/ft	KWP-G22/50-1728-24

RELATED ACCESSORIES > ELECTRONICS > SWITCHES

NAME	KEY FEATURES	IP PROTECTION RATING	REF.
Proximity switch UNI	- touchless switch - width only 7mm	20	E61579