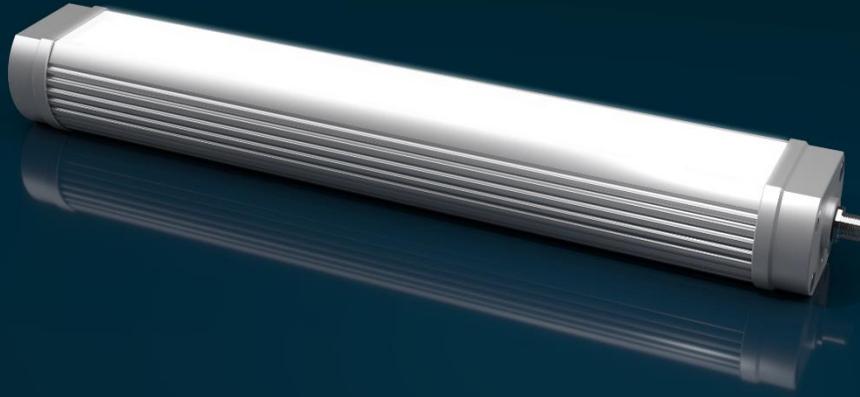


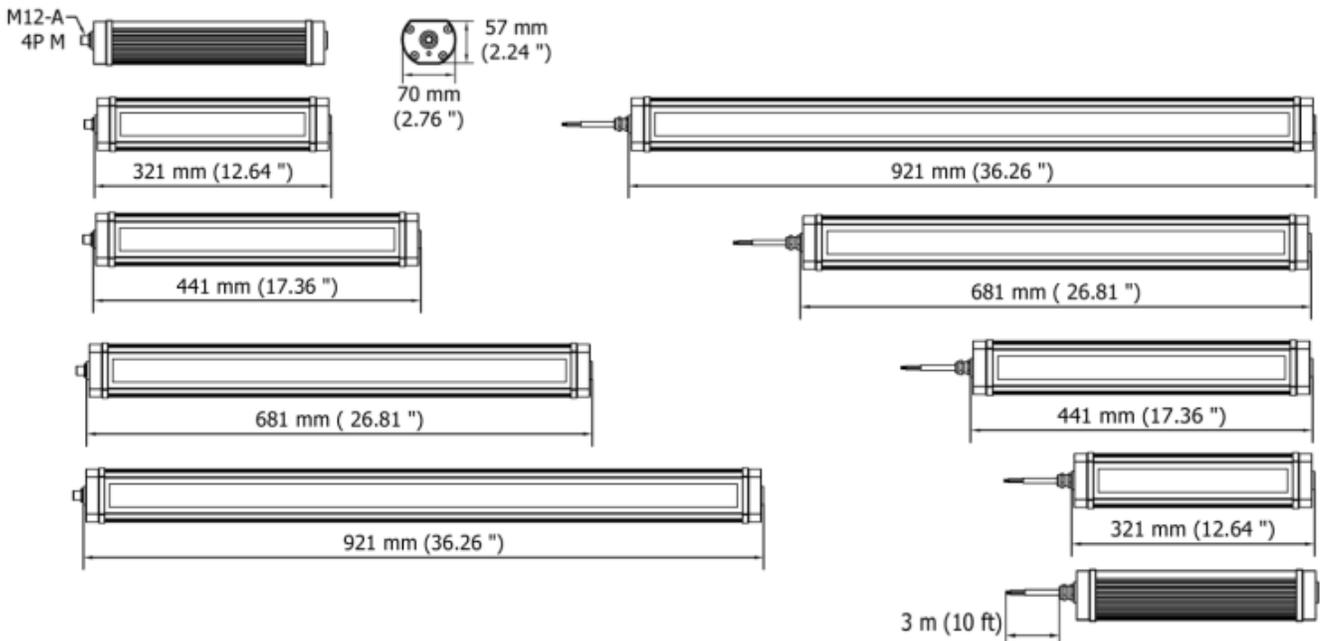
TRACKALPHA PRO



Trackalpha Pro luminaires are the surface mount lights in 120 Vac integrated, and they are the answer as machine lights for comprehensive CNC machines, manufacturing, and automation applications. Trackalpha Pro is the optimum flexible solution for retrofitting old machines thanks to the combination of 2 3/4" diameter housing, M12 connector, and universal mounting brackets. Trackalpha Pro offers four standard lengths and multiple customized sizes preferences thanks to the engineered modular aluminum housing and optimized PCBs. The traditional 10-foot cord or M12 Connector provides a secure, fast, accessible electrical junction to 120 Vac with no additional supply unit. Two standard mounting options are available: rear clips or side mounting brackets; they allow precise adjustment of the light direction up to 90° towards the work area and provide secure clamping and flexible installation of the luminaires on redeveloping machines.

- Housing is made of aluminum alloy resistant to oil, coolants, lubricants, and dust.
- Hardened frosted glass 3/16" thick is debris resistant, coolant backing Free, provides uniform illumination
- Four Standard Lengths to meet the different applications requirement
- 120° Beam opening angle to provide comprehensive and intense illumination
- LED lifespan: 60,000 hours > (L 70)
- Light color temperature 5000 K -- CRI 80
- 120 Vac via M12 or 10ft. (3m) Cable for more flexibility
- Three mounting options for a quick and practical installation are TAFX03 side Brackets, TACLIP rear clamping, B03 magnet

DIMENSIONS



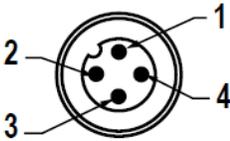
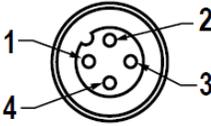
MECHANICAL FEATURES

Model	TA0224S01	TA0224S02	TA0324S01	TA0324S02	TA0524S01	TA0524S02	TA0724S01	TA0724S02
Casing Material	Anodized aluminum							
Side Enclosures	Anodized aluminum							
Surface Treatment	Natural aluminum anodisation							
Front Glass	Extra clear tempered 0.20 in (5 mm) thick frosted glass IK06							
Weight	3.16 lb 1,43 kg	3.61 lb 1,64 kg	4.05 lb 1,84 kg	4.50 lb 2,04 kg	5.66 lb 2,57 kg	6.82 lb 2,82 kg	7.41 lb 3,36 kg	7.86 lb 3,56 kg
Protection Index	IP67 Compatible with NEMA Type 12							
Impact Resistance	1.00 N m/s		1.00 N m/s		1.00 N m/s		1.00 N m/s	
Operating Temperature	04°F (-20°C) to +113°F (+ 45°C)							
Mounting	TAFX03 Stainless-steel side brackets / TACLIP Aluminum rear Clip / Magnet B03							
Installation	Suitable for wet location and under-cabinet and surface mount							

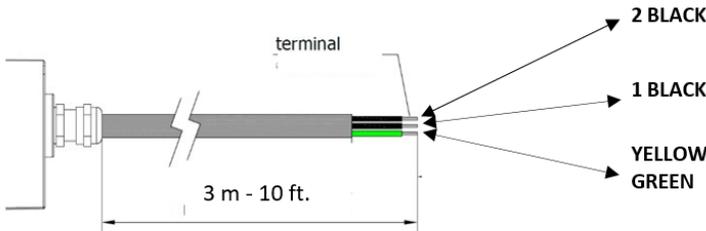
ELECTRICAL FEATURES

Model	TA0224S01	TA0224S02	TA0324S01	TA0324S02	TA0524S01	TA0524S02	TA0724S01	TA0724S02
Power Input	13 W		19,5 W		32,5 W		45,5 W	
Power Supply	100 ÷ 120 VAC 60 Hz							
Device Power Protection	Voltage Spike							
Electrical Connection	M12-4 4P M	CABLE	M12-4 4P M	CABLE	M12-4 4P M	CABLE	M12-4 4P M	CABLE
Insulation Class	Class I							

CONNECTION with M12-4P Male A Coding

Male	Female	Pin	Connection
		1	HOT 120 V
		2	GND
		3	NEUTRAL 0 V
		4	NOT CONNECTED

CONNECTION with 10 ft. (3m) Cable, Standard length

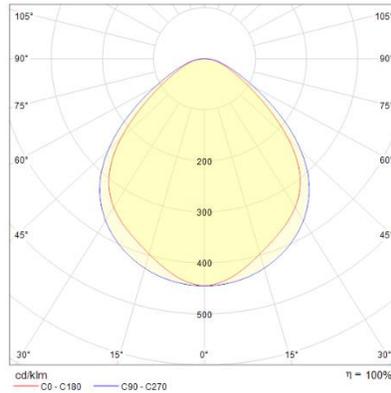
PVC 3G1 mm ² L= 3 m (17 AWG L. 10 ft)	Conductor	Connection
	1 Black	NEUTRAL
	2 Black	HOT
	Yellow / greens	GROUND
		120V
		0V

OPTICAL FEATURES

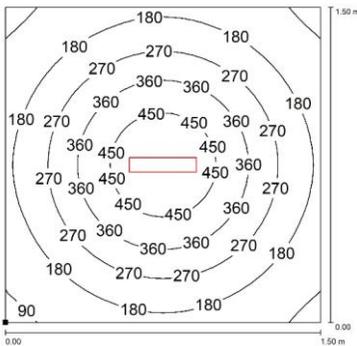
Model	N° and Type of LEDs	LED Lifespan	Light Color	CRI	Light Beam Angle	Luminous Flux	Efficiency
TAO224S01	28 Mid Power LED	60.000 L70**	5000 K	80	120°	1300 lm	100 lm/W
TAO224S02	28 Mid Power LED	60.000 L70**	5000 K	80	120°	1300 lm	100 lm/W
TAO324S01	42 Mid Power LED	60.000 L70**	5000 K	80	120°	1950 lm	100 lm/W
TAO324S02	42 Mid Power LED	60.000 L70**	5000 K	80	120°	1950 lm	100 lm/W
TAO524S01	70 Mid Power LED	60.000 L70**	5000 K	80	120°	3250 lm	100 lm/W
TAO524S02	70 Mid Power LED	60.000 L70**	5000 K	80	120°	3250 lm	100 lm/W
TAO724S01	98 Mid Power LED	60.000 L70**	5000 K	80	120°	4550 lm	100 lm/W
TAO724S02	98 Mid Power LED	60.000 L70**	5000 K	80	120°	4550 lm	100 lm/W

PHOTOMETRIC DIAGRAMS

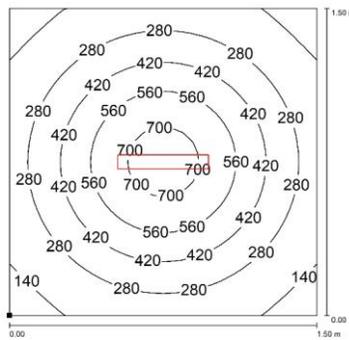
120° Flow beam



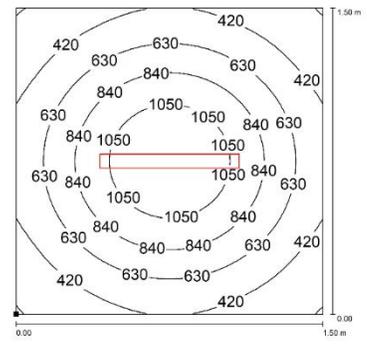
TAO224S01 / TAO224S02



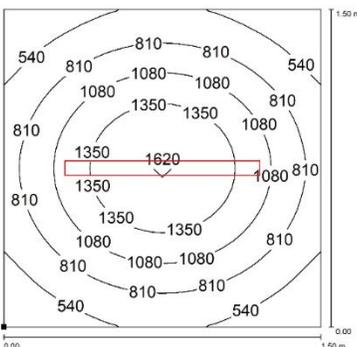
TAO324S01 / TAO324S02



TAO524S01 / TAO524S02



TAO724S01 / TAO724S02



Distance graphic: 1m

PLUG OPTION M12 Cable Connector

Product pictures

Description

Code product



Pre-assembled M12 4 Pin, female, A Coding, cable 5 m (10 ft)

M12AFC5

MOUNTING OPTIONS

Product pictures

Description

Code product



Robust, versatile and vibration resistant, it is a 70° angle adjustment bracket. Made of stainless steel, it is the perfect solution when you need to adjust the direction of the flow beam in high-vibrating applications.

TAFX03



Sturdy, flexible and vibration resistant, it is a 30° angle adjustment bracket. Made of anodized aluminum, it is the perfect solution when you need to retrofit an obsolete machine tools and machining centers.

TACLIP

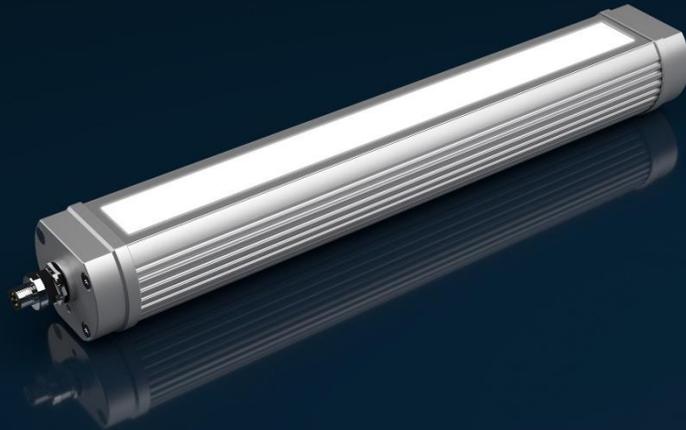


Strong magnetic disc made of neodymium. Use along with TAFX03 brackets when you need to move the light frequently and to different positions. Suitable to use in high-vibrating applications.

B03

ORDER CODES

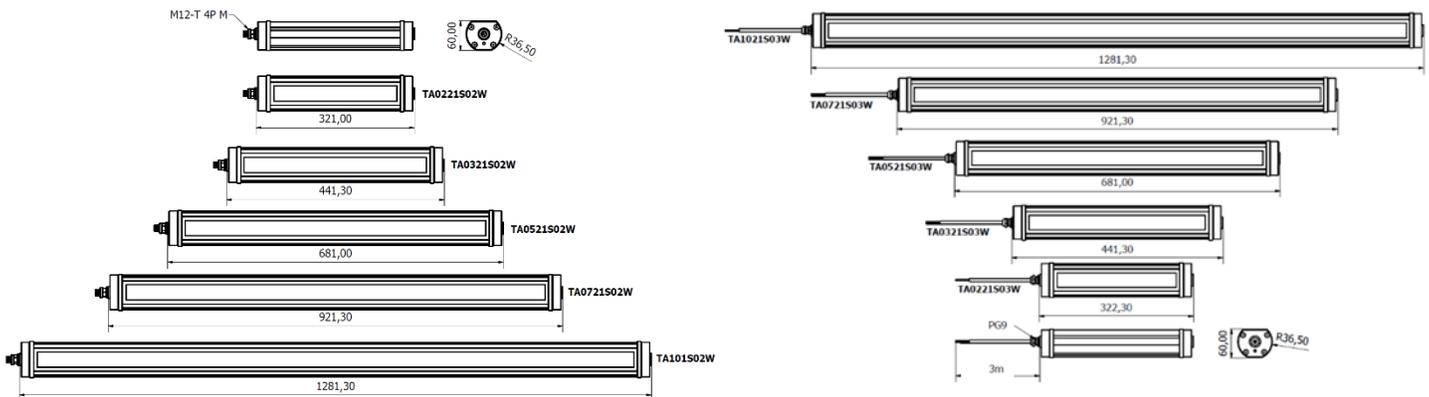
Model	Description
TA0224S01	TRACKALPHA PRO, 12.64"(321 mm), 120°, 13W, 120Vac, M12-A 4P Male
TA0224S02	TRACKALPHA PRO, 12.64"(321 mm), 120°, 13W, 120Vac, Cable 10ft (3mt)
TA0324S01	TRACKALPHA PRO, 17.36"(441 mm), 120°, 19.5W, 120Vac, M12-A 4P Male
TA0324S02	TRACKALPHA PRO, 17.36"(441 mm), 120°, 19.5W, 120Vac, Cable 10ft (3mt)
TA0524S01	TRACKALPHA PRO, 26.81"(681 mm), 120°, 32.5W, 120Vac, M12-A 4P Male
TA0524S02	TRACKALPHA PRO, 26.81"(681 mm), 120°, 32.5W, 120Vac, Cable 10ft (3mt)
TA0724S01	TRACKALPHA PRO, 36.26"(921 mm), 120°, 45.5W, 120Vac, M12-A 4P Male
TA0724S02	TRACKALPHA PRO, 36.26"(921 mm), 120°, 45.5W, 120Vac, Cable 10ft (3mt)
TAFX03	TRACKALPHA, stainless steel side brackets kit 90°
TACLIP	TRACKALPHA, rear mounting clips kit
B03	Magnet Diam 1.9" (48 mm)
M12AFC5	Pre-assembled M12 4Pin, female, A Coding, CABLE 5mt, UL



TRACKALPHA PRO is the integrated 24Vdc surface-mounted machine light for generic CNC machines, manufacturing machinery and industrial automation. TRACKALPHA PRO is the perfect versatile solution for retrofitting on machines that require it, thanks to the combination of 70 mm diameter profile, M12 connector and mounting supports available in two versions: anodized aluminum clips or side mounting brackets that allow precise adjustment of the direction of the luminous flux up to 90° and provide secure fastening and flexible installation. The side brackets can also be attached using the incredibly strong neodymium magnet for added strength in confined spaces. TRACKALPHA PRO offers five standard lengths thanks to the perfect modular structure in extruded aluminum and optimized PCBs. The original 3 meter cable or the M12 connector cod. T provide a safe, quick and simple electrical connection.

- Aluminium housing resistant to oil, coolants, lubricants, and dust.
- LED lifespan: 60,000 hours > (L 70)
- Hardened frosted glass 5 thick is debris resistant, it doesn't change color and provides consistent illumination
- Light color temperature 5000 K - CRI 80
- Four standard lengths available to meet all different applications requirements
- 24V via M12 or 3m cable for more flexibility
- 120° lens to provide wide and intense lighting
- Two mounting options for a quick and practical installation: TAFX03 side brackets, TACLIP rear clips,
- Approval: cURus in compliance with UL2018 / CSA / CE

DIMENSIONS



MECHANICAL FEATURES

Model	TA0221S02W	TA0221S03W	TA0321S02W	TA0321S03W	TA0521S02W	TA0521S03W	TA0721S02W	TA0721S03W	TA1021S02W	TA1021S03W
Casing Material	Anodized extruded aluminum									
Side Enclosers	Anodized aluminum									
Surface Treatment	Standard: 10 microns of natural aluminum solution oxidation									
Front Glass	Extra clear tempered 0.20 in (5 mm) thick frosted glass IK06									
Weight	2.65 lb (1.20kg)	3.09 lb (1.4kg)	3.64 lb (1.65kg)	4.08 lb (1.85kg)	5.62 lb (2.55kg)	6.06 lb (2.75kg)	7.28 lb (3.30kg)	7.72 lb (3.50kg)	10.25 lb (4.65 kg)	10.70 lb (4.85kg)
Protection Index	IP67 Compatible with NEMA Type 12									
Impact Resistance	1.00 N m/s		1.00 N m/s		1.00 N m/s		1.00 N m/s		1.00 N m/s	
Operating Temperature	04°F (-20°C) to +113°F (+ 45°C)									
Installation	TAFX02 Stainless-steel side brackets / TACLIP Aluminum rear Clip / Magnet B03									

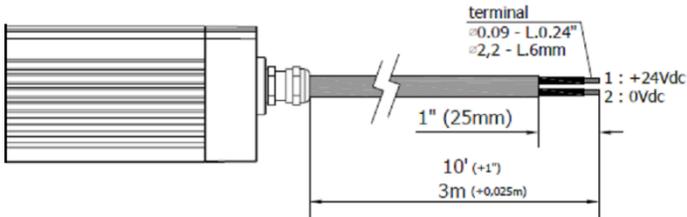
ELECTRICAL FEATURES

Model	TA0221S02W	TA0221S03W	TA0321S02W	TA0321S03W	TA0521S02W	TA0521S03W	TA0721S02W	TA0721S03W	TA1021S02W	TA1021S03W
Power Input	13 W		19.5 W		32.5 W		45.5 W		65 W	
Power Supply	22-28 Vdc									
Current	0.56 A @ 24 Vdc		0.85 A @ 24 Vdc		1.35 A @ 24 Vdc		1.9 A @ 24 Vdc		2.7 A @ 24 Vdc	
Device Power Protection	Full protection against reverse polarity									
Electrical Connection	M12	Cable	M12	Cable	M12	Cable	M12	Cable	M12	Cable
Insulation Class	Class III (SELV)									
Efficiency Class	E (Integrated LED module) compliant with UE LAW No. 2019/2020									

CONNECTION* with M12-4P Male T Coding

Male	Female	Pin	Connection
		1	+24 Vdc
		2	Not Connected
		3	0 Vdc
		4	Not Connected

CONNECTION with 10 ft. (3m) Cable, Standard length

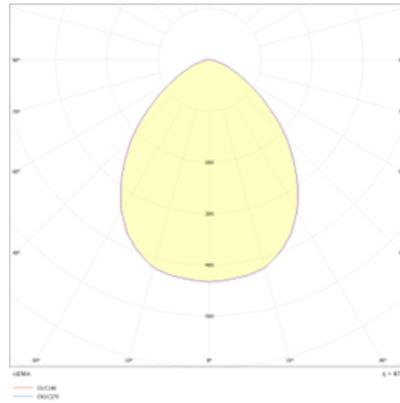
PVC 2x 0.17 in ² (0.75 mm ²) L= 10 ft. (3 m)	Conductor	Connection
	1 Black	+24 Vdc
	2 Black	0

OPTICAL FEATURES

Model	N° and Type of LEDs	LED Lifespan	Light Color	CRI	Light Beam Angle	Luminous Flux	Efficiency
TA0221S02W	42 Mid Power LED	60.000 L70**	5000 K	80	120°	~1510 lm	~116 lm/W
TA0221S03W	42 Mid Power LED	60.000 L70**	5000 K	80	120°	~1510 lm	~116 lm/W
TA0321S02W	63 Mid Power LED	60.000 L70**	5000 K	80	120°	~2265 lm	~116 lm/W
TA0321S03W	63 Mid Power LED	60.000 L70**	5000 K	80	120°	~2265 lm	~116 lm/W
TA0521S02W	105 Mid Power LED	60.000 L70**	5000 K	80	120°	~3770 lm	~116 lm/W
TA0521S03W	105 Mid Power LED	60.000 L70**	5000 K	80	120°	~3770 lm	~116 lm/W
TA0721S02W	147 Mid Power LED	60.000 L70**	5000 K	80	120°	~5280 lm	~116 lm/W
TA0721S03W	147 Mid Power LED	60.000 L70**	5000 K	80	120°	~5280 lm	~116 lm/W
TA1021S02W	210 Mid Power LED	60.000 L70**	5000 K	80	120°	~7550 lm	~116 lm/W
TA1021S03W	210 Mid Power LED	60.000 L70**	5000 K	80	120°	~7550 lm	~116 lm/W

PHOTOMETRIC DIAGRAMS

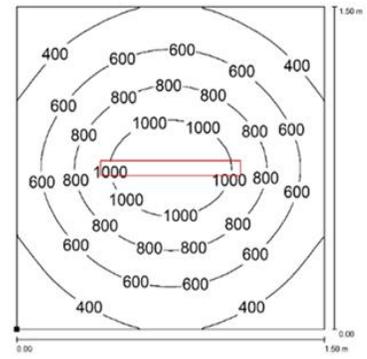
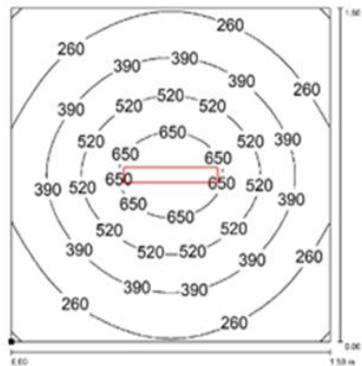
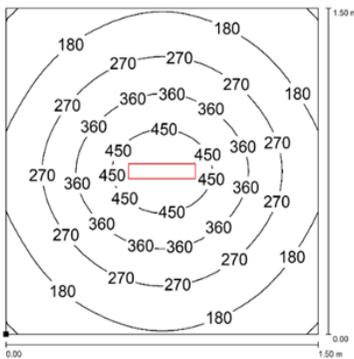
120° Flow beam



TA0221S02W / TA0221S03W

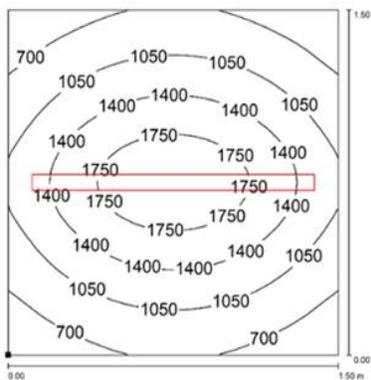
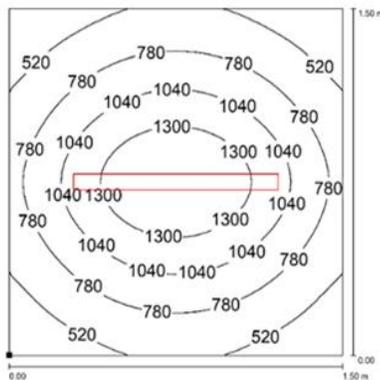
TA0321S02W / TA0321S03W

TA0521S02W / TA0521S03W



TA0721S02W / TA0721S03W

TA1021S02W / TA1021S03W



Distance graphic: 1m

PLUG OPTION M12 Cable Connector

Product pictures	Description	Code product
	M12; PIN: 4; female; T Code-Power; Straight for cable \varnothing 0.32-0.39 (8-10 mm); screw terminal	N13110001040302

MOUNTING OPTIONS

Product pictures	Description	Code product
	Robust, versatile and vibration resistant, it is a 90° angle adjustment bracket. Made of stainless steel, it is the perfect solution when you need to adjust the direction of the flow beam in high-vibrating applications.	TAFX02
	Sturdy, flexible and vibration resistant, it is a 30° angle adjustment bracket. Made of anodized aluminum, it is the perfect solution when you need to retrofit an obsolete machine tools and machining centers.	TACLIP
	Strong magnetic disc made of neodymium. Use along with TAFX02 brackets when you need to move the light frequently and to different positions. Suitable to use in high-vibrating applications.	B03

ORDER CODES

Model	Description
TA0221S02W	TRACKALPHA PRO, 12.64"(321 mm), 120°, 13W, 24Vdc, M12-T 4P Male
TA0221S03W	TRACKALPHA PRO, 12.64"(321 mm), 120°, 13W, 24Vdc, Cable 10ft (3mt)
TA0321S02W	TRACKALPHA PRO, 17.36"(441 mm), 120°, 19.5W, 24Vdc, M12-T 4P Male
TA0321S03W	TRACKALPHA PRO, 17.36"(441 mm), 120°, 19.5W, 24Vdc, Cable 10ft (3mt)
TA0521S02W	TRACKALPHA PRO, 26.81"(681 mm), 120°, 32.5W, 24Vdc, M12-T 4P Male
TA0521S03W	TRACKALPHA PRO, 26.81"(681 mm), 120°, 32.5W, 24Vdc, Cable 10ft (3mt)
TA0721S02W	TRACKALPHA PRO, 36.26"(921 mm), 120°, 45.5W, 24Vdc, M12-T 4P Male
TA0721S03W	TRACKALPHA PRO, 36.26"(921 mm), 120°, 45.5W, 24Vdc, Cable 10ft (3mt)
TA1021S02W	TRACKALPHA PRO, 50.43"(1281 mm), 120°, 65W, 24Vdc, M12-T 4P Male
TA1021S03W	TRACKALPHA PRO, 50.43"(1281 mm), 120°, 65W, 24Vdc, Cable 10ft (3mt)
TAFX02	TRACKALPHA, stainless steel side brackets kit 90°
TACLIP	TRACKALPHA, rear mounting clips kit
B03	Magnet Diam 1.9" (48 mm)
N13110001040302	M12; PIN: 4; female; T Code-Power; Straight for cable \varnothing 0.32-0.39 (8-10 mm); screw terminal