PHILIPS Lighting



SmartForm – the new standard for office lighting with slender recessed luminaires

SmartForm TBS415

Reflecting Philips' drive for simplicity and sustainability, SmartForm recessed is a complete family of highly versatile modular and semi-modular luminaires. These luminaires are available with a choice of LED or MASTER TL5 light sources in very small, slender versions. Designed to fit in a wide range of ceiling types, this complete family can fulfill the majority of project requirements in most applications. Energy efficiencyAs well as incorporating energy-efficient LED or TL5 light sources and a range of Philips electronic ballasts, the SmartForm recessed family can be equipped with lighting controls for presence detection and daylight regulation (ActiLume) or daylight regulation only (Luxsense) in order to reduce energy consumption (W/m2 is very low). In this way, this Green Flagship range also reduces the overall cost of ownership as well as CO2 levels, making SmartForm an environmentally friendly choice.SmartForm recessed TBS415 - 'light beam' semi-modular - 600 mm moduleSmartForm recessed luminaires are designed for integration in linear ceiling systems with a width of 148 mm (half module 300 mm) for exposed and concealed T-bar and the extended versions for bandraster ceilings. 'Light surface' TBS415 1lampMLO and asymmetrical optic in 1/2 modular concept, width 148 mm. Modular length 600, 900, 1200 and 1500 mm. To extend till 2400 mm. 'Light beam' TBS415 1lamp: micro-optics in 1/2 modular concept with AIR function, width 148 mm. Modular length 600, 900, 1200 and 1500 mm. To extend till 2400 mm.'Light beam' TBS415 2lampsMini-optics, 2-lamps in 1/2 modular concept with AIR function, width 148 mm. Modular length 600, 900, 1200 and 1500 mm. To extend till 2400 mm.

SmartForm TBS415

Benefits

- Slender, recessed 'light surface' luminaires with MLO Micro Lens Optics or 'light beam' luminaires with micro- or mini-optics for unobtrusive ceiling integration
- Complete family of linear luminaires designed to fit a wide range of ceiling types
- Available with either 1 or 2 TL5 lamps for excellent, energy-efficient office lighting solutions

Features

- Choice of LED or MASTER TL5 light sources
- MLO optics
- \cdot Electronic ballast
- Can be equipped with lighting controls for presence detection and daylight regulation (ActiLume) or daylight regulation only (Luxsense)

Application

- Offices
- Education
- Healthcare
- Recreation
- Retail
- Industry

Specifications

Туре	TBS415 (semi-modular light beam)	Optic	1-lamp version:
Ceiling grid	Width of all luminaires is 150 mm; module size in length: 600		- Micro OLC very high efficiency high-gloss optic (C8-VH)
	mm for exposed- and symmetrical concealed- T-bar ceiling		- Micro OLC very high efficiency high-gloss optic with top-
	and plaster (board) ceilings		reflector (T C8-VH)
	Extended versions, length max. 2400 mm, for bandraster		- Micro OLC performer high-gloss optic (C8)
	ceilings		- Micro OLC excellent comfort high-gloss optic (C8-C)
Light source	Fluorescent:		- Micro OLC very high efficiency semi-high-gloss optic (D8-VH)
	- 1 x or 2 x MASTER TL5 ECO / G5 / 13, 20, 25, 32, 45, 50, 73 W		- Micro OLC very high efficiency semi-high-gloss optic with
	- 1 x or 2 x MASTER TL5 / G5 / 14, 21, 24, 28, 35, 39, 49, 54, 80		top-reflector (T D8-VH)
	W		- Micro OLC performer semi-high-gloss optic (D8)
Lamp included	Yes, TL5 ECO (lamp color 830 or 840)		- Micro OLC excellent comfort semi-high-gloss optic (D8-C)
	Yes, TL5 (lamp color 827, 830 or 840)		- Micro OLC performer semi-high-gloss bi-directional optic
	In certain versions no lamps are included		with top-reflector (T D8-BD)
Gear	Electronic, 220-240 V / 50-60 Hz:		- Micro matt mirror, ribbed cross louvers (M2)
	- High Frequency Performer (HFP)		- Micro high efficiency mirror, ribbed cross louvers (M2-H)
	- High Frequency Performer, intelligent, multi-watt (HFPI)		- High efficiency asymmetrical optic (A), no AIR function
	- High Frequency Regulator, DALI (HFD)		2-lamp version:
	- High Frequency Regulator, 1-10 V (HFR)		- Mini OLC performer high-gloss optic (C6)
	- High Frequency Regulator, touch-DALI (HFD-T)		- Mini OLC very high efficiency high-gloss optic (C6-VH)
			- Mini OLC performer semi-high-gloss optic (D6)
			- Mini OLC very high efficiency semi-high-gloss optic (D6-VH)

- Mini OLC very high efficiency semi-high-gloss optic (D6-VH)
Optical cover (1-lamp
OLC Micro Lens Optic in PC cover with top-reflector (T MLO version)
PC), no AIR function

Specifications

SmartForm TBS415

Connection (outside	Push-in connector (PI) or with pull relief (PIP)	Materials and finishing	Housing: zinc-coated steel, white RAL 9016 based
housing)	Wieland connector GST 18, 3 or 4 poles (W, W4 respectively)		Optional white RAL 9010 or silver grey RAL 9006 based
	Wago connector, 3 or 4 poles (WA, WA4 respectively)		Rim detailing:
	Ensto connector, 3 or 4 poles (EN, EN4 respectively)		- standard versions: width 12 mm, height 5 mm, post-lacquere
	Cable, length 200 cm, with plug CEE7 (CCE)		- extended versions: width 12 mm, height 11 mm, pre-lacquere
Options	Air handling, slots besides optics, (AIR)	Accessories	Exposed ceilings: lay-in, no brackets needed
	Emergency lighting: 1 hour (EL1), 3 hours (EL3)		Concealed ceilings: bracket ZBS415 SMB SET
	Lighting controls:		Plaster ceilings: bracket ZBS460 SMB-PLC (12 pcs)
	- Luxsense daylight controller micro (LXM)		Bandraster ceilings:
	- ActiLume multi controller (ACL)		- SB1 for standard bandraster (GPS200)
	Internal PVC free wiring (PVCFR)		- SB2 for GPS100
	Euro fuse (FU) included		- SB3 for C/U-profile bandraster, metal ceiling
	Safety cable (SC)	Remarks	Protection foil to protect the optic during installation
Extended versions	Symmetrical extended variable length, max. 2400 mm		Dedicated luminaires available with air-handling functionality
(bandraster ceilings)	(L2400.0)		(AIR), 50 m³/hour/luminaire
	Asymmetrical extended variable length, max. 2400 mm	Main applications	Office, education, healthcare, recreation, retail, industry
	(L2400.0)		

Accessories

Ordercode 910403205603





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