PHILIPS Lighting



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

SmartForm TBS411

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 light sources and electronic ballasts, the SmartForm recessed family can be equipped with lighting controls. These include solutions for presence detection and daylight regulation (ActiLume) or daylight regulation only (Luxsense), thereby further reducing energy consumption (W/m² is very low). In this way, this Green Flagship range lowers overall cost of ownership as well as CO2 levels, making SmartForm an environmentally friendly choice.SmartForm recessed TBS411 - 'light beam' semi-modular - 600 mm moduleThese slender SmartForm recessed luminaires are designed for integration in variety of linear ceiling systems: exposed and concealed T-bar, plaster and the extended versions for bandraster ceilings. 'Light beam' TBS411 1-lampMicro-optics and covers (MLO-PC and Opal) in smallest concept, width 90 mm. Modular length 600, 900, 1200 and 1500 mm. To extend till 2400 mm. 'Light beam' TBS411 1-lamp with AIRMicro-optics and covers in smallest concept with AIR function, width 100 mm. Modular length 600, 900, 1200 and 1500 mm. To extend till 2400 mm. Light beam' TBS411 2-lampsMini-optics, 2-lamps, width 115 mm. Modular length 600, 900, 1200 and 1500 mm. To extend till 2400 mm.

SmartForm TBS411

Benefits

- Slender, recessed 'light beam' luminaires with micro- or mini-optics for unobtrusive ceiling integration
- Complete family of linear luminaires including very small, slender versions, all 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
- Micro- or mini-optics
- Electronic ballast
- Can be equipped with lighting controls for presence detection and daylight regulation (ActiLume) or daylight regulation only (Luxsense)

Application

- Offices
- Education
- Healthcare
- \cdot Recreation
- \cdot Retail
- Industry

Specifications

Туре	TBS411 (semi-modular light beam)	Optic	1-lamp version:
Ceiling grid	Module size in length: 600 mm for exposed- and symmetrical		- Micro OLC very high efficiency high-gloss optic (C8-VH)
	concealed- T-bar ceiling and plaster (board) ceilings		- Micro OLC very high efficiency high-gloss optic with top-
	Extended versions, length max. 2400 mm, for bandraster		reflector (T C8-VH)
	ceilings		- Micro OLC performer high-gloss optic (C8)
Light source	Fluorescent:		- Micro OLC excellent comfort high-gloss optic (C8-C)
	- 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 (D8-VH)
	- 1 x or 2 x MASTER TL5 / G5 / 14, 21, 24, 28, 35, 39, 49, 54, 80		- Micro OLC very high efficiency semi-high-gloss optic with
	W		top-reflector (T D8-VH)
Lamp included	Yes, TL5 ECO (lamp color 830 or 840)		- Micro OLC performer semi-high-gloss optic (D8)
	Yes, TL5 (lamp color 827, 830 or 840)		- Micro OLC excellent comfort semi-high-gloss optic (D8-C)
	In certain versions no lamps are included		- Micro OLC performer semi-high-gloss bi-directional optic
Gear	Electronic, 220-240 V / 50-60 Hz:		with top-reflector (T D8-BD)
	- High Frequency Performer (HFP)		- Micro matt mirror, ribbed cross louvers (M2)
	- High Frequency Performer, intelligent, multi-watt (HFPI)		- Micro high efficiency mirror, ribbed cross louvers (M2-H)
	- High Frequency Regulator, 1-10 V (HFR)		- Micro high efficiency asymmetrical optic (A), no AIR function
	- High Frequency Regulator, DALI (HFD)		2-lamp version:
	- High Frequency Regulator DALI, touch & dimming (HFD-T)		- Mini OLC performer high-gloss optic (C6)
			- 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)
		Optical cover (1-lamp	Opal cover (O) no AIR function

Specifications

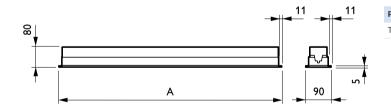
SmartForm TBS411

Connection (outside	Push-in connector (PI) or with pull relief (PIP)	Materials and color	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-lacquered
	Cable, length 200 cm, with plug CEE7 (CCE)		- extended versions: width 12 mm, height 11 mm, pre-lacquered
Options	Air handling, slots besides optics, width plus 10 mm (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)		

Versions



Dimensional drawing



Product	А
TBS411 1x35W/830 HFP D8 PIP	1497 mm

SmartForm TBS411

Product details

Push-in connector (with pull relief)





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