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

SmartForm TBS417

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 TBS417 – 'light line beam'Slender SmartForm recessed continuous light-line luminaires are designed for integration in linear exposed T-bar and plaster ceilings.'Light line beam' TBS417 1-lampContinuous light line for micro-optics, asymmetrical optic and rimless MLO and Opal covers. All versions TL5: 14/24 W; 21/39 W; 28/54 W; 35/49/80 W. Luminaire width is 90 mm.'Light line beam' TBS417 2-lampsContinuous light line for mini-optics, 2-lamps. All versions TL5: 14/24 W; 21/39 W; 28/54 W; 35/49/80 W. Luminaire width is 115 mm.

SmartForm TBS417

Benefits
· Slender, recessed '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
· 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
· Recreation
· Retail
· Industry

Specifications

Type	TBS417 (semi-modular light beam, continuous line)		**Optic**	1-lamp version:
Ceiling grid	Exposed- T-bar ceiling and plaster (board) ceilings			– Micro OLC very high efficiency high-gloss optic (C8-VH)
Light source	Fluorescent:			– Micro OLC very high efficiency high-gloss optic with top-reflector (T C8-VH)
	– 1 x or 2 x MASTER TL5 ECO / G5 / 13, 20, 25, 32, 45, 50, 73 W			– Micro OLC performer high-gloss optic (C8)
	– 1 x or 2 x MASTER TL5 / G5 / 14, 21, 24, 28, 35, 39, 49, 54, 80 W			– Micro OLC excellent comfort high-gloss optic (C8-C)
Lamp included	Yes, TL5 ECO (lamp color 830 or 840)			– Micro OLC very high efficiency semi-high-gloss optic (D8-VH)
	Yes, TL5 (lamp color 827, 830 or 840)			– Micro OLC very high efficiency semi-high-gloss optic with top-reflector (T D8-VH)
	In certain versions no lamps are included			– Micro OLC performer semi-high-gloss optic (D8)
Gear	Electronic, 220-240 V / 50-60 Hz:			– Micro OLC excellent comfort semi-high-gloss optic (D8-C)
	– 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, DALI (HFD)			– Micro high efficiency asymmetrical optic (A)
	– High Frequency Regulator, 1-10 V (HFR)			2-lamp version:
	– High Frequency Regulator, touch-DALI (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 version)	Opal cover (O)
				OLC Micro Lens Optic in PC cover (MLO-PC)

Specifications

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Connection (outside housing)	Push-in connector (PI) or with pull relief (PIP)	Materials and finishing	Housing: zinc-coated steel, white RAL 9016 based
	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: linear rim, width 12 mm, height 5 mm, pre-lacquered
	Ensto connector, 3 or 4 poles (EN, EN4 respectively)		
	Cable, length 200 cm, with plug CEE7 (CCE)	Accessories	Set of end plates for 1-lamp version: ZBS417 EP-S SET (SI and RAL9010)
Options	Emergency lighting: 1 hour (EL1), 3 hours (EL3)		
	Lighting controls:		Set of end plates for 2-lamp version: ZBS417 EP-T SET (SI and RAL9010)
	– Luxsense daylight controller micro (LXM)		
	– ActiLume multi controller (ACL)		Set of end plates for asymmetric version: ZBS417 EP-A SET (SI and RAL9010)
	Through wiring, 1 phase, 3 wires (TRW1)		
	Through wiring, 3 phase, 5 wires (TRW3)		Exposed ceilings: lay-in, no brackets needed
	Internal PVC free wiring (PVCFR)		Plaster ceilings: bracket ZBS460 SMB-PLC (12 pcs)
	Euro fuse (FU) included	Remarks	Protection foil to protect the optic during installation
	Safety cable (SC)	Main applications	Office, education, healthcare, recreation, retail, industry

Accessories

Ordercode 910403205603