PHILIPS Lighting



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 1lampContinuous 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.

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

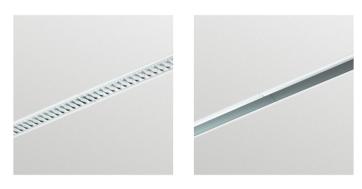
Туре	TBS417 (semi-modular light beam, continuous line)	Optic 1-lamp version:			
Ceiling grid	Exposed- T-bar ceiling and plaster (board) ceilings		- Micro OLC very high efficiency high-gloss optic (C8-VH)		
Light source	Fluorescent:		- Micro OLC very high efficiency high-gloss optic with top-reflector		
	- 1 x or 2 x MASTER TL5 ECO / G5 / 13, 20, 25, 32, 45, 50, 73 W		(T C8-VH)		
	- 1 x or 2 x MASTER TL5 / G5 / 14, 21, 24, 28, 35, 39, 49, 54, 80 W		- Micro OLC performer high-gloss optic (C8)		
Lamp included	Yes, TL5 ECO (lamp color 830 or 840)		- Micro OLC excellent comfort high-gloss optic (C8-C)		
	Yes, TL5 (lamp color 827, 830 or 840)		- Micro OLC very high efficiency semi-high-gloss optic (D8-VH)		
	In certain versions no lamps are included		- Micro OLC very high efficiency semi-high-gloss optic with top-		
Gear	Electronic, 220-240 V / 50-60 Hz:		reflector (T D8-VH)		
	- High Frequency Performer (HFP)	ronic, 220-240 V / 50-60 Hz: h Frequency Performer (HFP) h Frequency Performer, intelligent, multi-watt (HFPI) - Micro OLI	- Micro OLC performer semi-high-gloss optic (D8)		
	- High Frequency Performer, intelligent, multi-watt (HFPI)		- Micro OLC excellent comfort semi-high-gloss optic (D8-C)		
	- High Frequency Regulator, DALI (HFD)		- Micro matt mirror, ribbed cross louvers (M2)		
	- High Frequency Regulator, 1-10 V (HFR)		- Micro high efficiency mirror, ribbed cross louvers (M2-H)		
	- High Frequency Regulator, touch-DALI (HFD-T)		- Micro high efficiency asymmetrical optic (A)		
			2-lamp version:		
			- 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 (0) version) OLC Micro Lens Optic in PC cover (MLO-PC)

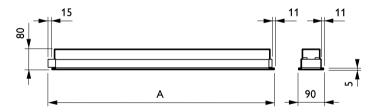
Specifications

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

Versions

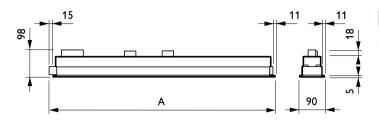


Dimensional drawing



Product A	A.
TBS417 1x49W/840 HFP D8 PIP 1	1508 mm

Dimensional drawing



Product	A
TBS417 1x49W/840 HFP A W	1508 mm

Product details









Accessories



Ordercode 910403204203



Ordercode 910403204303

Accessories

lmage not yet available Ordercode 910403204403

Application Conditions	
Ambient temperature range	+10 to +40 °C
Average ambient temperature	25 °C
Suitable for random switching	No
Approval and Application	
Mech. impact protection code	IK02
Ingress protection code	IP20
Operating and Electrical	
Input Voltage	220 to 240 V
General Information	
Air-handling	No
Cap-Base	G5
CE mark	CE mark
Protection class IEC	Safety class I (I)
Optical cover/lens type	No
Emergency lighting	No
ENEC mark	ENEC mark
Flammability mark	F
Gear	HFP
Glow-wire test	850/5
Kombipack	Lamp(s) included
Lamp family code	TL5
Lamp power	49 W
Embedded control	No
Number of light sources	1
Product Family Code	TBS417
Safety bracket	-
Top reflector	No
Internal wiring	Standard
Initial Performance (IEC Compliant)	
Initial LED luminaire efficacy	100 lm/W
Initial luminous flux	4900 lm
Luminous flux tolerance	+/-10%
Initial input power	49 W

Application Conditions

Order Code	Full Product Name	Maximum dim level
910501899003	TBS417 1x49W/840 HFP D8 PIP	1%
910501902003	TBS417 1x49W/840 HFP A W	Not applicable

General Inform	mation
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Housing configuration 2

Colour

Mechanical and Housing

White

1-lamp housing

Order Code	Full Product Name	Optic type	UL mark	Order Code	Full Product Name	Optic type	UL mark
910501899003	TBS417 1x49W/840 HFP D8 PIP	D8	No	910501902003	TBS417 1x49W/840 HFP A W	А	-



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