

APM LED TUBE

PRODUCT INTRODUCTION

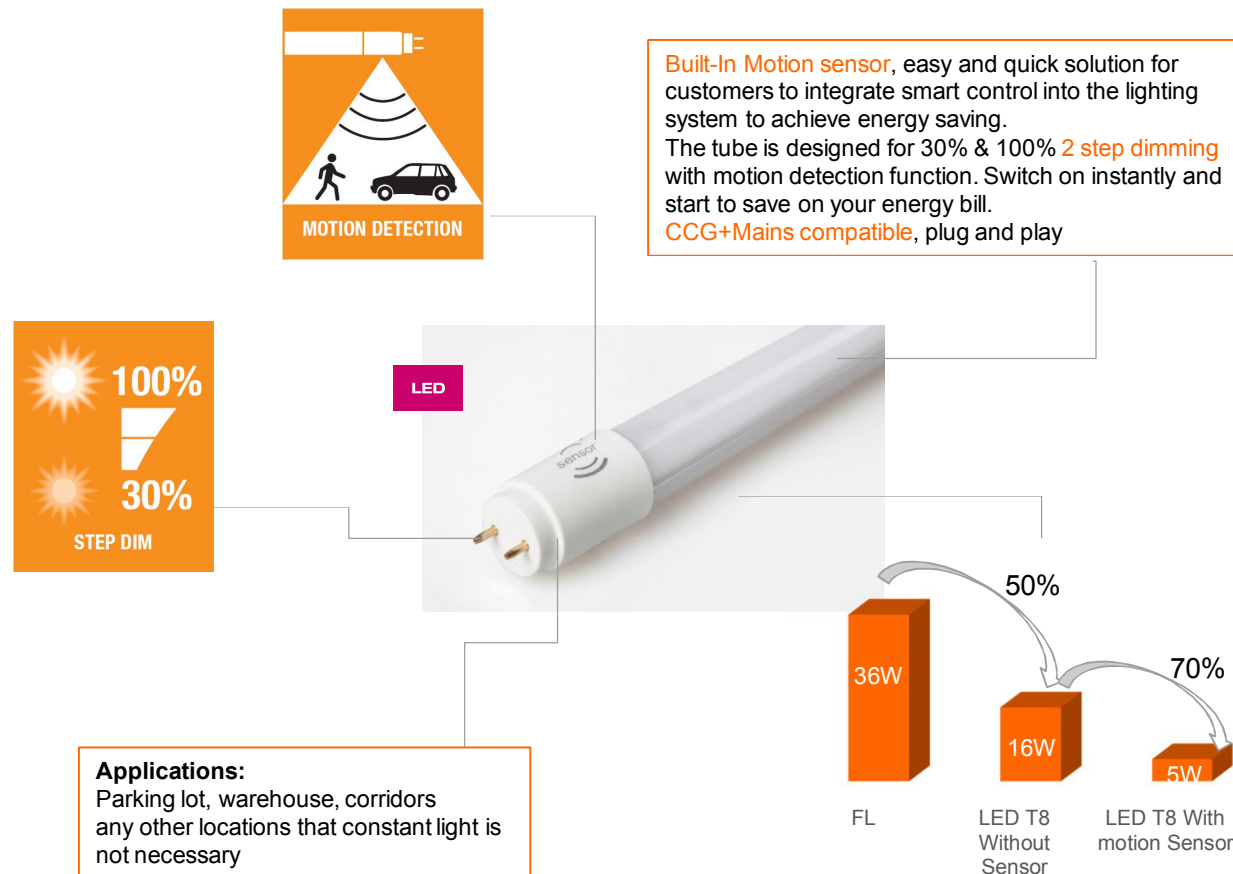


LED STAR+
MOTION SENSOR TUBE

Raysen Feng | DCS | Oct. 2017



LED STAR+ MOTION SENSOR TUBE



Your top 5 benefit

- ✓ Built-in motion sensor technology, automatically adjusting light output by detecting motion
- ✓ Hassle free 1:1 replacement for fluorescent tube in CCG installation
- ✓ Excellent payback story and energy savings of up to 70%*
- ✓ High efficiency of up to 100 lm/W
- ✓ Very good light quality and distribution

*compared to conventional FL lamps



Product Information Sheet

General specification

Key Technical Data

Product	LED STAR+ MOTION SENSOR Tube	
Tube body	Glass	Glass
Length	2FT	4FT
Luminous flux	800 lm	1600 lm
Power consumption	8W	16W
Voltage	220 – 240 V 50/60Hz	220 – 240 V 50/60Hz
Driver	CCG+Mains; Microwave sensor	CCG+Mains Microwave sensor
CCT	4000K,6500 K	4000K,6500 K
CRI(Ra)	>80	>80
SDCM	<6	<6
Power factor	>0.9	>0.9
Lifetime (L70/B50)	30 000 h	30 000 h
Switching cycles	50 000	50 000
Radiance angle	>160°	>160°
Dimmable	Step DIM 30%-100%	Step DIM 30%-100%
L x W	603 mm x 28 mm	1212 mm x 28 mm
Socket	G13	G13
IEC standard	CB,EMC	CB,EMC

Product description:

- 1:1 LED replacement for fluorescent tube (2ft and 4ft)
- For operation at CCG installation
- Can be operated with direct AC 230V
- Glass tube body with out bending issue
- High color homogeneity
- RoHS-conformity, no mercury
- Suitable for ambient temperatures from -20° ... 45° C

Key product features:

- High efficiency of up to 100 lm/W
- Up to 70% energy savings compared to conventional fluorescent lamps
- Instant 100% light without flickering
- 2 years LEDVANCE guarantee

Application:

- Car park
- Stairways
- Corridors, Foyers
- Warehouse

IP20

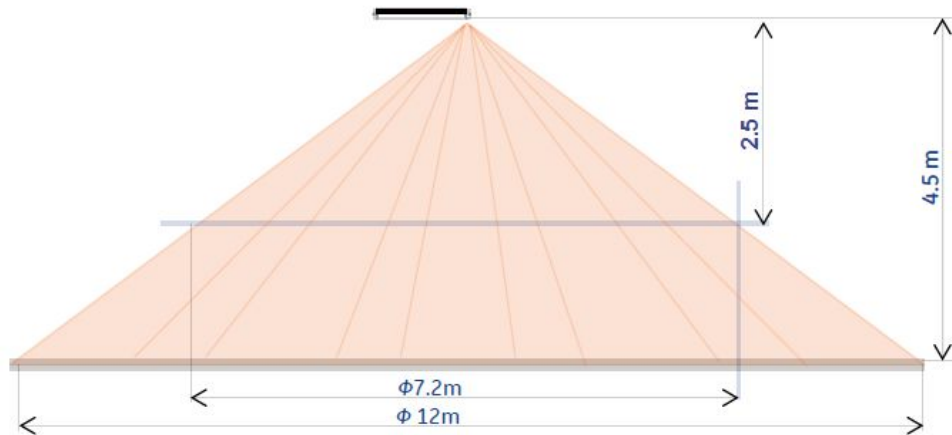
CB



Product Information Sheet

Motion sensor technical spec and application notice

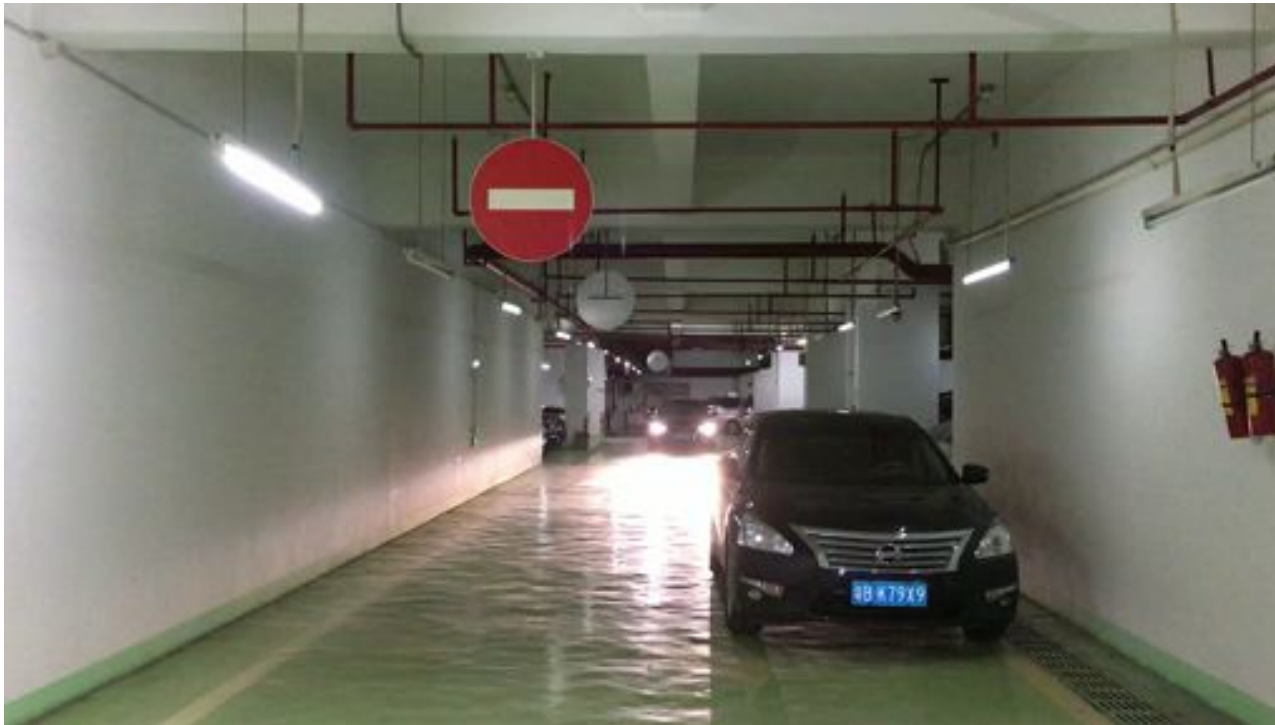
- | | | |
|-------------------------------------|--|--|
| 1. Two step dimming | 1) 100% brightness when detecting motion | 2) 30% brightness 30s after motion out of the detecting area |
| 2. Effective sensor detection range | Height:
2.5m to 4.5m | Diameter:
7.2m to 12m |
| 3. Motion speed for detection | >1.0m/s | |



- The built-in motion sensor (microwave sensor) is installed in one end of the tube (with product label). It should avoid be covered by metal parts and direction down.
- Install in places far away from magnetic field to avoid wrong function.
- Install in places far away from moving objects (such as fans, etc.) to avoid wrong function.
- Recommended installation distant between tubes is >6 meter

Product Application

Short Video: application in car park



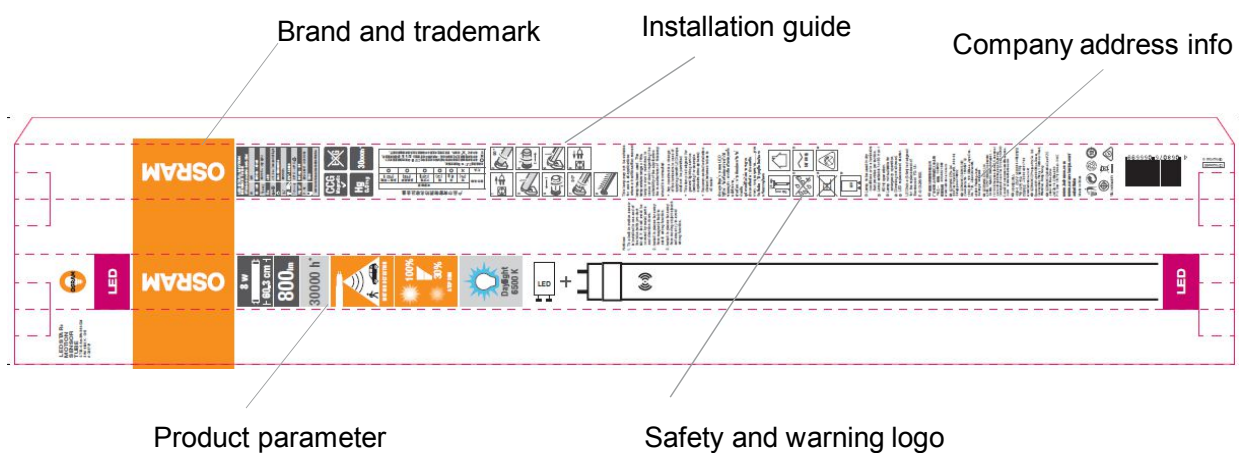
Link of share point folder for the video:

https://lightweb.osram.com/content/10000137/cl_apac_intranet/Shared%20Documents/Forms/AllItems.aspx?RootFolder=%2Fcontent%2F10000137%2Fcl%5Fapac%5Fintranet%2FShared%20Documents%2FLED%20LAMPS%20APM%2FDocuments%2FProduct%20Marketing%20Information%2FLED%20Tube%20%2D%207HF%2FFY%201718%2FLED%20STAR%2B%20MOTION%20SENSOR%20TUBE%2FProduct%20Introduction&FolderCTID=0x0120006AEFCA9AF80FBC4A8649491103046025&View=%7B35C6796D%2DD3CE%2D4CCA%2D8101%2D96B1C5AAD40D%7D

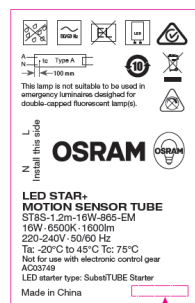


Product Package

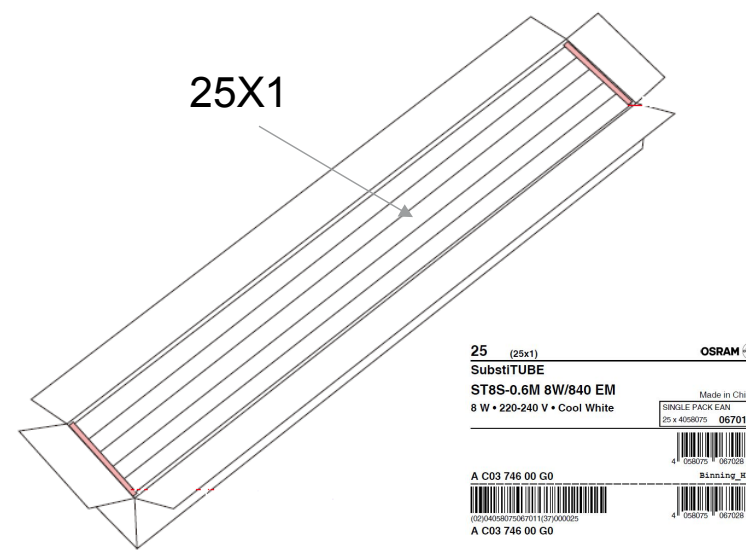
Product Artwork (color box)



Product Label (etching)



Carton box & label



Wiring Introduction

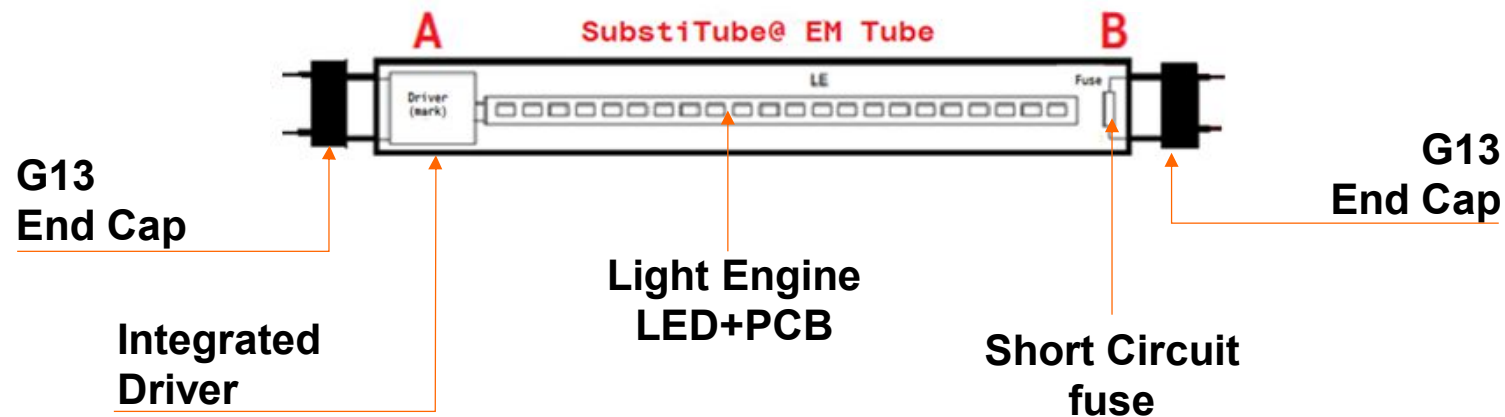
What is EM tube and how the design structure is

LED START+ MOTION SENSOR TUBE IS A EM LED TUBE

1. LED tube for **ElectroMagnetic** control gears (CCG)



2. LED tube for direct AC input



Accessory



LED
Starter

Wiring Introduction

Wiring in CCG Circuit double end input

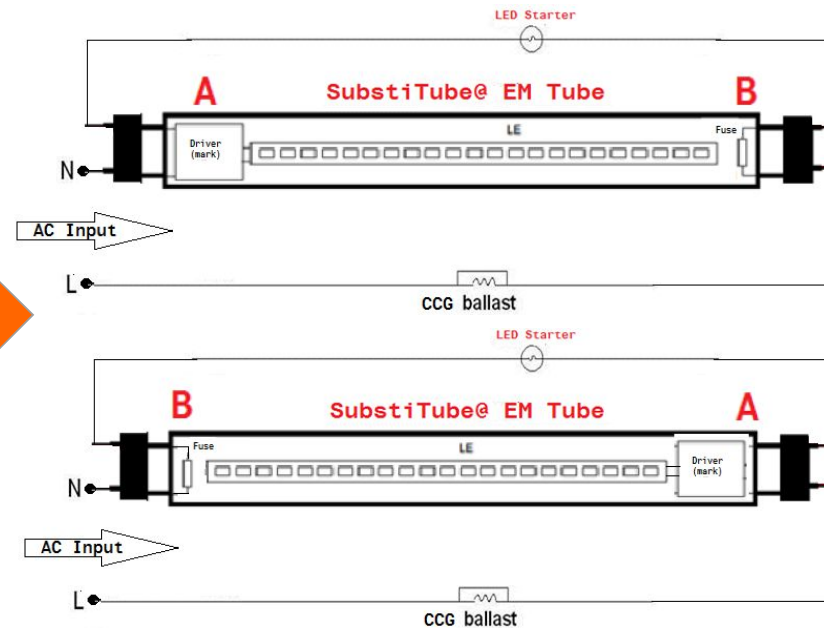
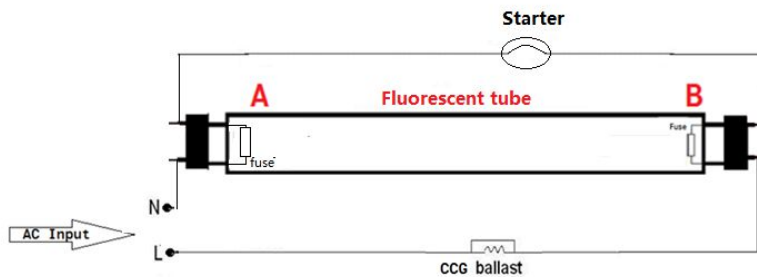
What you need?

- EM LED Tube
- LED Starter

What you need to do?

- ✓ Replace FL with EM LED tube
- ✓ Replace with LED Dummy Starter
- ✓ **No rewiring, direction free for installation**

Retrofit



Wiring Introduction

Wiring in direct AC input Circuit double end input

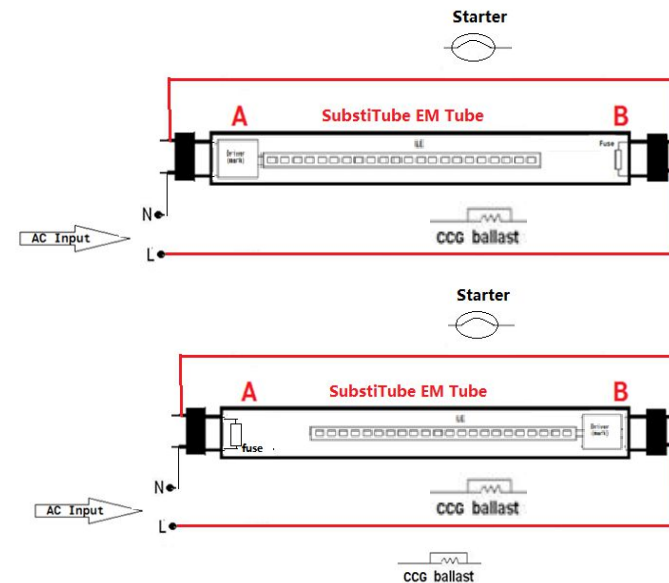
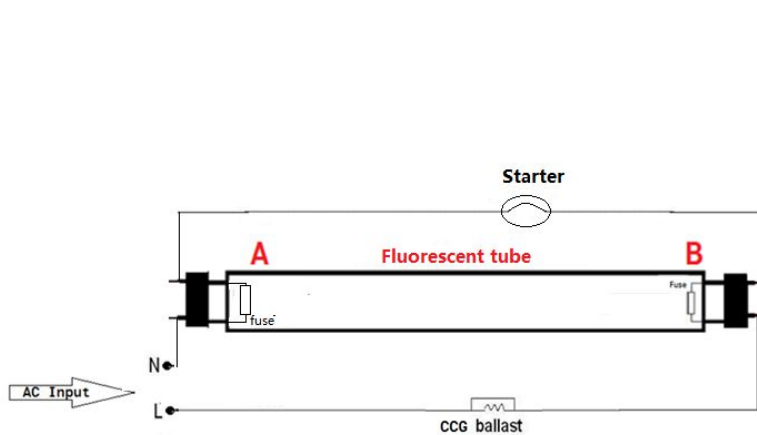
What you need?

- EM LED Tube
- **Doesn't need** LED starter

What you need to do?

- ✓ Replace FL with EM tube
- ✓ **Bypass** wiring of ballast
- ✓ **Bypass** wiring of Starter
- ✓ Connect to the AC main, **direction free for installation**

Rewiring



Wiring Introduction

Wiring in direct AC input Circuit single end input

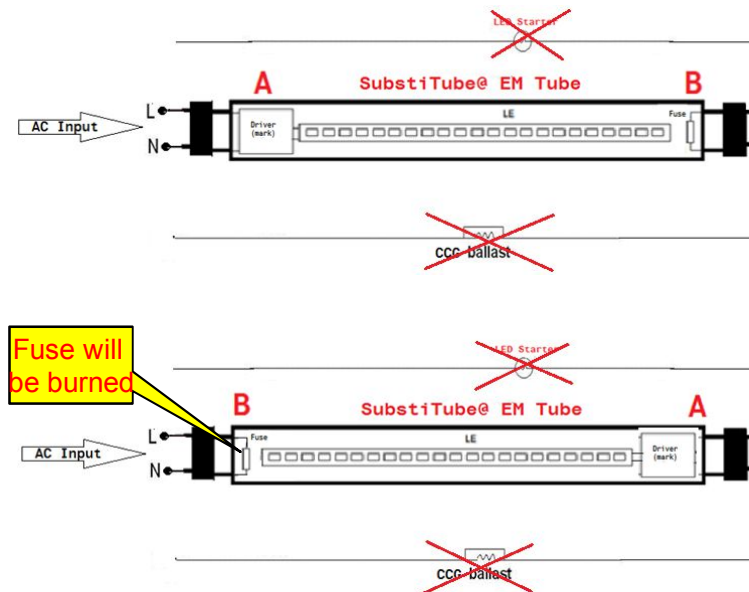
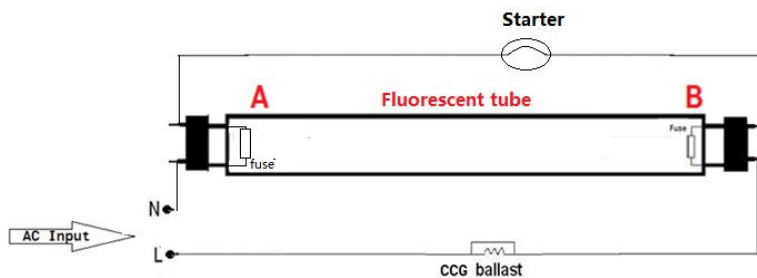
What you need?

- EM LED Tube
- **Doesn't need** LED starter

What you need to do?

- ✓ Replace FL with EM tube
- ✓ **Remove** wiring of ballast
- ✓ **Remove** wiring of Starter
- ✓ Connect to the AC main and **attention** to the L&N direction

Rewiring





Product phase in phase out mapping

Available date will be different by BG since local approbation and shipping lead time

Product Segment	Product Type	Region	2017 Q3		2017 Q4			2018 Q1			Comments
			May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
LED STAR+ (M1)	LED STAR+ MOTION SENSOR	APM						AC0374600G0	4058075067011	ST8S-0.6M 8W/840 230V EM 25X1 APM OSRAM	New portfolio
LED STAR+ (M1)	LED STAR+ MOTION SENSOR	APM						AC0374700G0	4058075055599	ST8S-0.6M 8W/865 230V EM 25X1 APM OSRAM	New portfolio
LED STAR+ (M1)	LED STAR+ MOTION SENSOR	APM						AC0374800G0	4058075067035	ST8S-1.2M 16W/840 230V EM 25X1 APM OSRAM	New portfolio
LED STAR+ (M1)	LED STAR+ MOTION SENSOR	APM						AC0374900G0	4058075055612	ST8S-1.2M 16W/865 230V EM 25X1 APM OSRAM	New portfolio

NEW PORTFOLIO OF APM LED TUBE

Pls confirm with supply chain colleague for the actual lead time and available date by different BG



Ordering info

25pcs per shipping box

Product	ENA-10*	ENA-40**	S-Unit***
ST8S-0.6M 8W/840 230V EM 25X1 APM OSRAM	4058075067011	4058075067028	25X1
ST8S-0.6M 8W/865 230V EM 25X1 APM OSRAM	4058075055599	4058075055605	
ST8S-1.2M 16W/840 230V EM 25X1 APM OSRAM	4058075067035	4058075067042	
ST8S-1.2M 16W/865 230V EM 25X1 APM OSRAM	4058075055612	4058075055629	

* ENA-10: ordering code for single unit

** ENA-40: ordering code for shipping unit

*** S-Unit: Lamps per shipping unit



Information Hub:

Share-point

Share point link: TI sheet, Product Introduction PPT, Certification and test report, IES-file

https://lightweb.osram.com/content/10000137/cl_apac_intranet/Shared%20Documents/Forms/AllItems.aspx?RootFolder=%2Fcontent%2F10000137%2Fcl%5Fapac%5Fintranet%2FShared%20Documents%2FLED%20LAMPS%20APM%2FDocuments%2FProduct%20Marketing%20Information%2FLED%20Tube%20%2D%207HF%2FFY%201718%2FLED%20STAR%2B%20MOTION%20SENSOR%20TUBE&FolderCTID=0x0120006AEFCA9AF80FBC4A8649491103046025&View=%7B35C6796D%2DD3CE%2D4CCA%2D8101%2D96B1C5AAD40D%7D&InitialTabId=Ribbon%2EDocument&VisibilityContext=WSSTabPersistence

Share point link: IC & EAN list

https://lightweb.osram.com/content/10000137/cl_apac_intranet/Shared%20Documents/Forms/AllItems.aspx?RootFolder=%2Fcontent%2F10000137%2Fcl%5Fapac%5Fintranet%2FShared%20Documents%2FLED%20LAMPS%20APM%2FDocuments%2FProduct%20Marketing%20Information%2FMonthly%20IC%20and%20EAN%20List%2F2017%20IC%20and%20EAN%20List&FolderCTID=0x0120006AEFCA9AF80FBC4A8649491103046025&View=%7B35C6796D%2DD3CE%2D4CCA%2D8101%2D96B1C5AAD40D%7D

In case you have further unclear, you may send email to rr.feng@ledvance.com (Raysen Feng) for further support.



THANK YOU