



The perfect lamp for contractors and ESCOs alike, Contractor-grade MainsFit (UL Type-B) LED lamp provides an easy solution to upgrade from the traditional fluorescent lamp.

Contractor-grade MainsFit (UL Type-B) T8

The Contractor-grade MainsFit (UL Type B) lamps are designed to provide simple retrofit solution to move from traditional fluorescent lamps to energy saving LEDs. This ballast bypass lamp is similar to other UL Type B lamps in the Philips family by providing proven energy savings, long life (50k hours), surge suppression and industry leading safety features. All lamps in the Contractor-grade family are also double-ended to help simplify the installation.

Contractor-grade MainsFit (UL Type-B) T8

Benefits

- Choose the light level and energy savings that suit your needs
- Installation simplicity: Can be used with both shunted and un-shunted sockets
- Emergency Capable: Compatible with the new PTB15D emergency driver or the Bodine ELI-S series emergency inverters (up to 15w lamps)

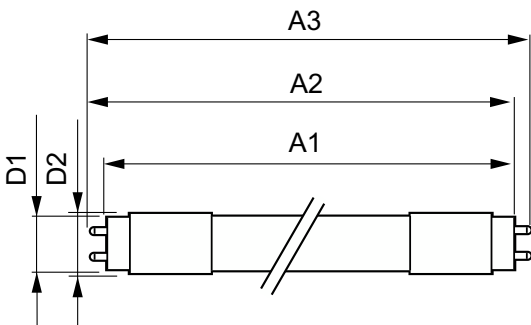
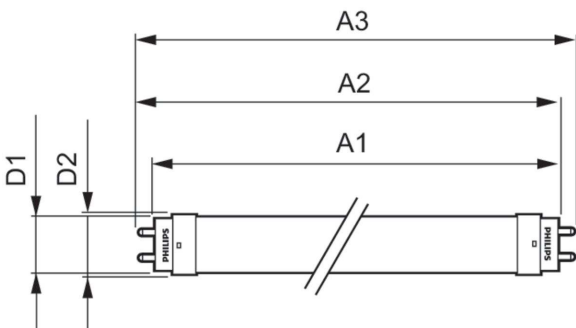
Features

- DLC listed and affordable
- Glass tube with 240° illumination angle
- Available in 4' T8 lamp family, with 2 lumen output options
- Lifetime delivered: Average life rating of 50,000 hours
- 5-year limited warranty (For more information on Philips' limited warranty please visit philips.com/warranties)

Application

- Warehouses
- Schools
- Offices

Dimensional drawing

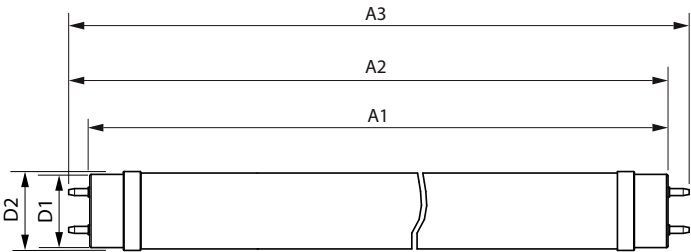


Product	D1	D2	A1	A2	A3
14.5T8/CNG/48-835/MF17/G	25.7 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
25/1					
14.5T8/CNG/48-840/MF18/G	25.7 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
25/1					
14.5T8/CNG/48-850/MF18/G	25.7 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
25/1					
14.5T8/CNG/48-865/MF18/G	25.7 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
25/1					
16.5T8/CNG/48-835/MF20/G	25.7 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
25/1					
16.5T8/CNG/48-840/MF21/G	25.7 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
25/1					
16.5T8/CNG/48-850/MF21/G	25.7 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
25/1					

Product	D1	D2	A1	A2	A3
CNG LEDtube 1200mm 14W 840	25.7 mm	28 mm	1,199.4 mm	1,206.5 mm	1,213.6 mm
T8 WV					
CNG LEDtube 1200mm 14W 865	25.7 mm	28 mm	1,199.4 mm	1,206.5 mm	1,213.6 mm
T8 WV					
CNG LEDtube 600mm 9W 840	25.7 mm	28 mm	589.8 mm	596.9 mm	604 mm
T8 WV					
CNG LEDtube 600mm 9W 865	25.7 mm	28 mm	589.8 mm	596.9 mm	604 mm
T8 WV					

Contractor-grade MainsFit (UL Type-B) T8

Dimensional drawing



Product	D1	D2	A1	A2	A3
13.4T8/CNG/48-835/MX17/G 25/1	25.7 mm	27.9 mm	1,199.4 mm	1,206.5 mm	1,213.6 mm
13.4T8/CNG/48-840/MX18/G 25/1	25.7 mm	27.9 mm	1,199.4 mm	1,206.5 mm	1,213.6 mm
13.4T8/CNG/48-850/MX18/G 25/1	25.7 mm	27.9 mm	1,199.4 mm	1,206.5 mm	1,213.6 mm
13.4T8/CNG/48-865/MX18/G 25/1	25.7 mm	27.9 mm	1,199.4 mm	1,206.5 mm	1,213.6 mm
15.3T8/CNG/48-835/MX20/G 25/1	25.7 mm	27.9 mm	1,199.4 mm	1,206.5 mm	1,213.6 mm
15.3T8/CNG/48-840/MX21/G 25/1	25.7 mm	27.9 mm	1,199.4 mm	1,206.5 mm	1,213.6 mm
15.3T8/CNG/48-850/MX21/G 25/1	25.7 mm	27.9 mm	1,199.4 mm	1,206.5 mm	1,213.6 mm

General Information	
Cap-Base	G13
Switching Cycle	50,000
Light Technical	
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Input Frequency	50 to 60 Hz
Starting Time (Nom)	0.5 s
Mechanical and Housing	
Bulb Shape	T8

General Information

Order Code	Full Product Name	Nominal lifetime
929002000412	CNG LEDtube 600mm 9W 840 T8 WV	25,000 hour(s)
929002000512	CNG LEDtube 600mm 9W 865 T8 WV	25,000 hour(s)
929004601812	CNG LEDtube 1200mm 14W 840 T8 WV	25,000 hour(s)
929004601912	CNG LEDtube 1200mm 14W 865 T8 WV	25,000 hour(s)
929003474504	14.5T8/CNG/48-835/MF17/G 25/1	50,000 hour(s)
929003474604	14.5T8/CNG/48-840/MF18/G 25/1	50,000 hour(s)
929003474704	14.5T8/CNG/48-850/MF18/G 25/1	50,000 hour(s)
929003474804	14.5T8/CNG/48-865/MF18/G 25/1	50,000 hour(s)
929003510604	16.5T8/CNG/48-835/MF20/G 25/1	50,000 hour(s)

Order Code	Full Product Name	Nominal lifetime
929003510704	16.5T8/CNG/48-840/MF21/G 25/1	50,000 hour(s)
929003510804	16.5T8/CNG/48-850/MF21/G 25/1	50,000 hour(s)
929004351104	13.4T8/CNG/48-835/MX17/G 25/1	50,000 hour(s)
929004351204	13.4T8/CNG/48-840/MX18/G 25/1	50,000 hour(s)
929004351304	13.4T8/CNG/48-850/MX18/G 25/1	50,000 hour(s)
929004351404	13.4T8/CNG/48-865/MX18/G 25/1	50,000 hour(s)
929004351504	15.3T8/CNG/48-835/MX20/G 25/1	50,000 hour(s)
929004351604	15.3T8/CNG/48-840/MX21/G 25/1	50,000 hour(s)
929004351704	15.3T8/CNG/48-850/MX21/G 25/1	50,000 hour(s)

Light Technical

Contractor-grade MainsFit (UL Type-B) T8

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color		
			Temperature (Nom)	Color Code	Luminous Flux
929002000412	CNG LEDtube	240	4000 K	840	900 lm
	600mm 9W 840 T8 WV	degree(s)			
929002000512	CNG LEDtube	240	6500 K	865	900 lm
	600mm 9W 865 T8 WV	degree(s)			
929004601812	CNG LEDtube	240	4000 K	840	1,600 lm
	1200mm 14W 840 T8 WV	degree(s)			
929004601912	CNG LEDtube	240	6500 K	865	1,600 lm
	1200mm 14W 865 T8 WV	degree(s)			
929003474504	14.5T8/CNG/	220	3500 K	835	1,750 lm
	48-835/MF17/G 25/1	degree(s)			
929003474604	14.5T8/CNG/	220	4000 K	840	1,800 lm
	48-840/MF18/G 25/1	degree(s)			
929003474704	14.5T8/CNG/	220	5000 K	850	1,800 lm
	48-850/MF18/G 25/1	degree(s)			
929003474804	14.5T8/CNG/	220	6500 K	865	1,800 lm
	48-865/MF18/G 25/1	degree(s)			
929003510604	16.5T8/CNG/	220	3500 K	835	2,000 lm
	48-835/MF20/G 25/1	degree(s)			

Operating and Electrical

Order Code	Full Product Name	Line	Power	Wattage
		Frequency	Consumption	Equivalent
929002000412	CNG LEDtube	-	9 W	-
	600mm 9W 840 T8 WV			
929002000512	CNG LEDtube	-	9 W	-
	600mm 9W 865 T8 WV			
929004601812	CNG LEDtube	-	14 W	-
	1200mm 14W 840 T8 WV			
929004601912	CNG LEDtube	-	14 W	-
	1200mm 14W 865 T8 WV			
929003474504	14.5T8/CNG/	50 to 60 Hz	14.5 W	32 W
	48-835/MF17/G 25/1			

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color		
			Temperature (Nom)	Color Code	Luminous Flux
929003510704	16.5T8/CNG/	220	4000 K	840	2,100 lm
	48-840/MF21/G 25/1	degree(s)			
929003510804	16.5T8/CNG/	220	5000 K	850	2,100 lm
	48-850/MF21/G 25/1	degree(s)			
929004351104	13.4T8/CNG/	220	3500 K	835	1,750 lm
	48-835/MX17/G 25/1	degree(s)			
929004351204	13.4T8/CNG/	220	4000 K	840	1,800 lm
	48-840/MX18/G 25/1	degree(s)			
929004351304	13.4T8/CNG/	220	5000 K	850	1,800 lm
	48-850/MX18/G 25/1	degree(s)			
929004351404	13.4T8/CNG/	220	6500 K	865	1,800 lm
	48-865/MX18/G 25/1	degree(s)			
929004351504	15.3T8/CNG/	220	3500 K	835	2,000 lm
	48-835/MX20/G 25/1	degree(s)			
929004351604	15.3T8/CNG/	220	4000 K	840	2,100 lm
	48-840/MX21/G 25/1	degree(s)			
929004351704	15.3T8/CNG/	220	5000 K	850	2,100 lm
	48-850/MX21/G 25/1	degree(s)			

Order Code	Full Product Name	Line	Power	Wattage
		Frequency	Consumption	Equivalent
929003474604	14.5T8/CNG/	50 to 60 Hz	14.5 W	32 W
	48-840/MF18/G 25/1			
929003474704	14.5T8/CNG/	50 to 60 Hz	14.5 W	32 W
	48-850/MF18/G 25/1			
929003474804	14.5T8/CNG/	50 to 60 Hz	14.5 W	32 W
	48-865/MF18/G 25/1			
929003510604	16.5T8/CNG/	50 to 60 Hz	16.5 W	32 W
	48-835/MF20/G 25/1			
929003510704	16.5T8/CNG/	50 to 60 Hz	16.5 W	32 W
	48-840/MF21/G 25/1			

Contractor-grade MainsFit (UL Type-B) T8

Order Code	Full Product Name	Line	Power	Wattage
		Frequency	Consumption	Equivalent
929003510804	16.5T8/CNG/ 48-850/MF21/G 25/1	50 to 60 Hz	16.5 W	32 W
929004351104	13.4T8/CNG/ 48-835/MX17/G 25/1	-	13.4 W	32 W
929004351204	13.4T8/CNG/ 48-840/MX18/G 25/1	-	13.4 W	32 W
929004351304	13.4T8/CNG/ 48-850/MX18/G 25/1	-	13.4 W	32 W

Order Code	Full Product Name	Line	Power	Wattage
		Frequency	Consumption	Equivalent
929004351404	13.4T8/CNG/ 48-865/MX18/G 25/1	-	13.4 W	32 W
929004351504	15.3T8/CNG/ 48-835/MX20/G 25/1	-	15.3 W	32 W
929004351604	15.3T8/CNG/ 48-840/MX21/G 25/1	-	15.3 W	32 W
929004351704	15.3T8/CNG/ 48-850/MX21/G 25/1	-	15.3 W	32 W

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929002000412	CNG LEDtube 600mm 9W 840 T8 WV	60 °C
929002000512	CNG LEDtube 600mm 9W 865 T8 WV	60 °C
929004601812	CNG LEDtube 1200mm 14W 840 T8 WV	60 °C
929004601912	CNG LEDtube 1200mm 14W 865 T8 WV	60 °C
929003474504	14.5T8/CNG/48-835/MF17/G 25/1	70 °C
929003474604	14.5T8/CNG/48-840/MF18/G 25/1	70 °C
929003474704	14.5T8/CNG/48-850/MF18/G 25/1	70 °C
929003474804	14.5T8/CNG/48-865/MF18/G 25/1	70 °C
929003510604	16.5T8/CNG/48-835/MF20/G 25/1	70 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929003510704	16.5T8/CNG/48-840/MF21/G 25/1	70 °C
929003510804	16.5T8/CNG/48-850/MF21/G 25/1	70 °C
929004351104	13.4T8/CNG/48-835/MX17/G 25/1	55 °C
929004351204	13.4T8/CNG/48-840/MX18/G 25/1	55 °C
929004351304	13.4T8/CNG/48-850/MX18/G 25/1	55 °C
929004351404	13.4T8/CNG/48-865/MX18/G 25/1	55 °C
929004351504	15.3T8/CNG/48-835/MX20/G 25/1	60 °C
929004351604	15.3T8/CNG/48-840/MX21/G 25/1	60 °C
929004351704	15.3T8/CNG/48-850/MX21/G 25/1	60 °C

Controls and Dimming

Order Code	Full Product Name	Dimmable
929002000412	CNG LEDtube 600mm 9W 840 T8 WV	No
929002000512	CNG LEDtube 600mm 9W 865 T8 WV	No
929004601812	CNG LEDtube 1200mm 14W 840 T8 WV	No
929004601912	CNG LEDtube 1200mm 14W 865 T8 WV	No
929003474504	14.5T8/CNG/48-835/MF17/G 25/1	Limited
929003474604	14.5T8/CNG/48-840/MF18/G 25/1	Limited
929003474704	14.5T8/CNG/48-850/MF18/G 25/1	Limited
929003474804	14.5T8/CNG/48-865/MF18/G 25/1	Limited
929003510604	16.5T8/CNG/48-835/MF20/G 25/1	Limited

Order Code	Full Product Name	Dimmable
929003510704	16.5T8/CNG/48-840/MF21/G 25/1	Limited
929003510804	16.5T8/CNG/48-850/MF21/G 25/1	Limited
929004351104	13.4T8/CNG/48-835/MX17/G 25/1	Limited
929004351204	13.4T8/CNG/48-840/MX18/G 25/1	Limited
929004351304	13.4T8/CNG/48-850/MX18/G 25/1	Limited
929004351404	13.4T8/CNG/48-865/MX18/G 25/1	Limited
929004351504	15.3T8/CNG/48-835/MX20/G 25/1	Limited
929004351604	15.3T8/CNG/48-840/MX21/G 25/1	Limited
929004351704	15.3T8/CNG/48-850/MX21/G 25/1	Limited

Mechanical and Housing

Order Code	Full Product Name	Bulb Finish
929002000412	CNG LEDtube 600mm 9W 840 T8 WV	-
929002000512	CNG LEDtube 600mm 9W 865 T8 WV	-
929004601812	CNG LEDtube 1200mm 14W 840 T8 WV	-
929004601912	CNG LEDtube 1200mm 14W 865 T8 WV	-
929003474504	14.5T8/CNG/48-835/MF17/G 25/1	Frosted
929003474604	14.5T8/CNG/48-840/MF18/G 25/1	Frosted
929003474704	14.5T8/CNG/48-850/MF18/G 25/1	Frosted
929003474804	14.5T8/CNG/48-865/MF18/G 25/1	Frosted

Order Code	Full Product Name	Bulb Finish
929003510604	16.5T8/CNG/48-835/MF20/G 25/1	Frosted
929003510704	16.5T8/CNG/48-840/MF21/G 25/1	Frosted
929003510804	16.5T8/CNG/48-850/MF21/G 25/1	Frosted
929004351104	13.4T8/CNG/48-835/MX17/G 25/1	Frosted
929004351204	13.4T8/CNG/48-840/MX18/G 25/1	Frosted
929004351304	13.4T8/CNG/48-850/MX18/G 25/1	Frosted
929004351404	13.4T8/CNG/48-865/MX18/G 25/1	Frosted
929004351504	15.3T8/CNG/48-835/MX20/G 25/1	Frosted

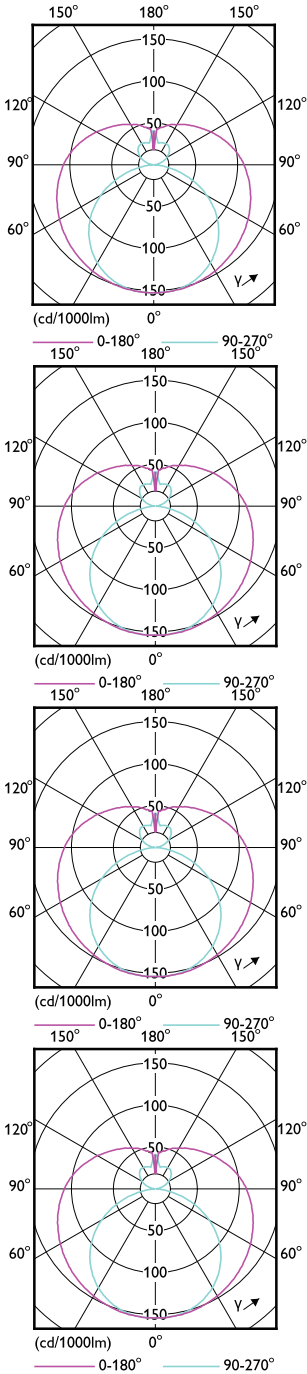
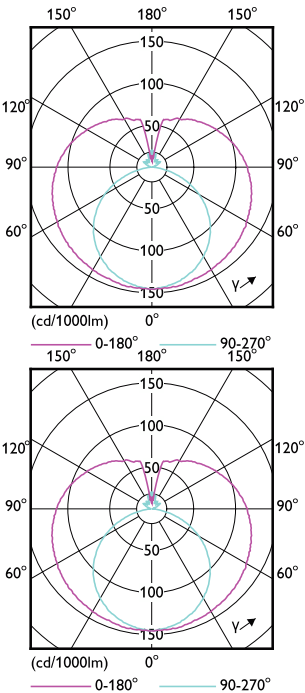
Contractor-grade MainsFit (UL Type-B) T8

Order Code	Full Product Name	Bulb Finish
929004351604	15.3T8/CNG/48-840/MX21/G 25/1	Frosted

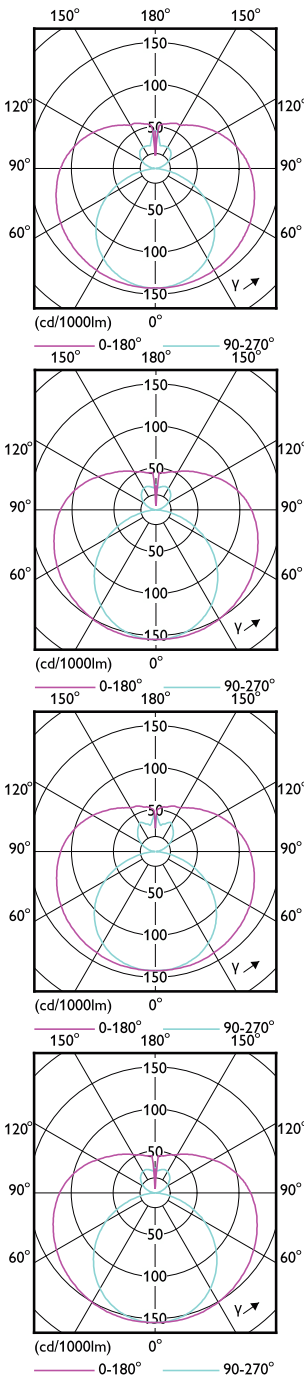
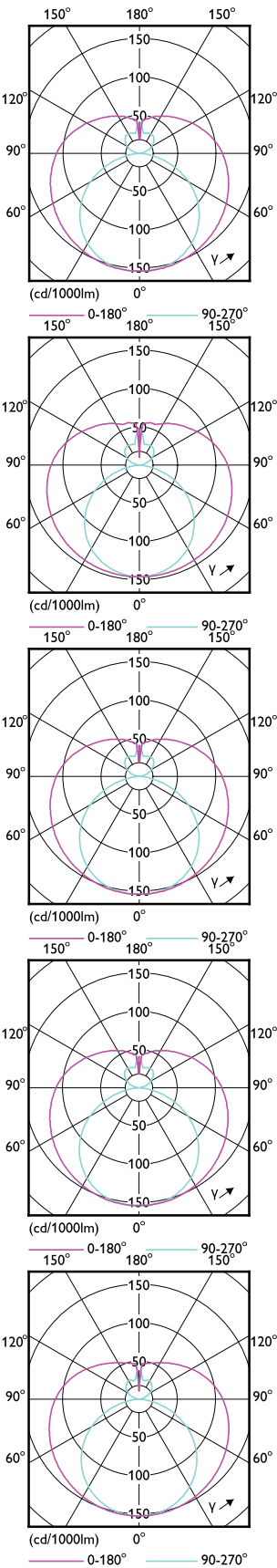
Order Code	Full Product Name	Bulb Finish
929004351704	15.3T8/CNG/48-850/MX21/G 25/1	Frosted

Approval and Application

Order Code	Full Product Name	Ambient temperature range
929002000412	CNG LEDtube 600mm 9W 840 T8 WV	-20 to +45 °C
929002000512	CNG LEDtube 600mm 9W 865 T8 WV	-20 to +45 °C
929004601812	CNG LEDtube 1200mm 14W 840 T8 WV	-20 to +45 °C
929004601912	CNG LEDtube 1200mm 14W 865 T8 WV	-20 to +45 °C
929003474504	14.5T8/CNG/48-835/MF17/G 25/1	-20 °C to 45 °C
929003474604	14.5T8/CNG/48-840/MF18/G 25/1	-20 °C to 45 °C
929003474704	14.5T8/CNG/48-850/MF18/G 25/1	-20 °C to 45 °C
929003474804	14.5T8/CNG/48-865/MF18/G 25/1	-20 °C to 45 °C
929003510604	16.5T8/CNG/48-835/MF20/G 25/1	-20 °C to 45 °C
929003510704	16.5T8/CNG/48-840/MF21/G 25/1	-20 °C to 45 °C
929003510804	16.5T8/CNG/48-850/MF21/G 25/1	-20 °C to 45 °C
929004351104	13.4T8/CNG/48-835/MX17/G 25/1	-20 to +45 °C
929004351204	13.4T8/CNG/48-840/MX18/G 25/1	-20 to +45 °C
929004351304	13.4T8/CNG/48-850/MX18/G 25/1	-20 to +45 °C
929004351404	13.4T8/CNG/48-865/MX18/G 25/1	-20 to +45 °C
929004351504	15.3T8/CNG/48-835/MX20/G 25/1	-20 to +45 °C
929004351604	15.3T8/CNG/48-840/MX21/G 25/1	-20 to +45 °C
929004351704	15.3T8/CNG/48-850/MX21/G 25/1	-20 to +45 °C



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