Lighting: Fluorescent & LED Lighting Fixture (Pendant), EARS Series

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 22

Application

Can be installed in hazardous areas designated as Zone 1 and 2 – 21 and 22.

For indoor/outdoor use where protection against dirt, water and moisture is necessary.

Typical applications include oil refineries, petrochemical plants, pulp and paper mills.

Specification

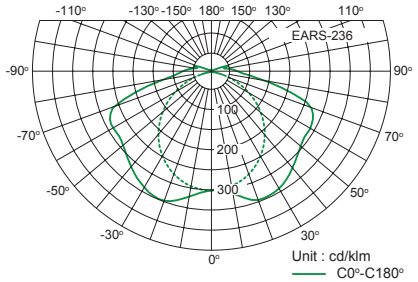
Body material : Marine grade copper-free aluminium alloy with polyester powder coated, RAL 7032 (grey)

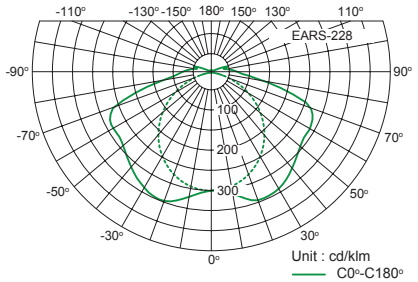
Tube : Borosilicate glass

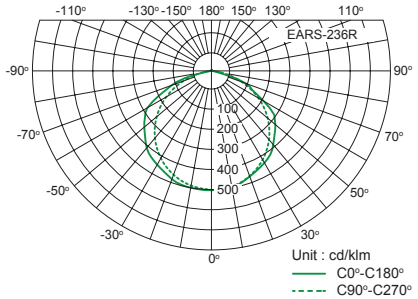
Reflector (option) : Sheet steel with polyester powder coated, RAL 9016 (white)

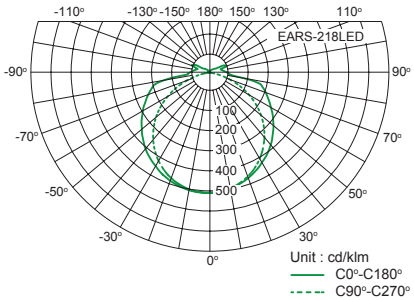
Guard (option) : Stainless steel, SUS 304

Luminous Intensity Distribution Curve









Complete photometrics, please contact us.

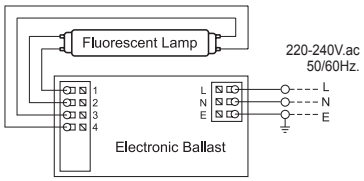
Technical Data

Hazardous Area	Gas	Dust
Zones	1 & 2	22
Equipment Group/Category	II 2G	II 3D
Symbol of Protection	Ex d IIB T6 Gb	Ex tc IIIB T85°C Dc IP54
Conformity to standards	EN IEC 60079-0:2018, EN 60079-1:2014,	
	EN 60079-31:2014	
Ambient Temperature	-20°C to +50°C	
Index of Protection	IP54	

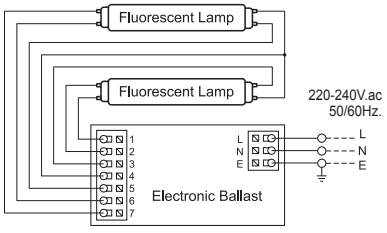
Entries	2- Ø3/4" NPT
Mounting	Pendant mount
Rated Voltage	110-240V.ac 50/60Hz. (THDi ≤ 10%, P.F. ≥ 0.98)

Wiring Diagram

Electronic ballast for fluorescent lamp;
1x 14W., 1x 28W., 1x 18W. and 1x 36W.



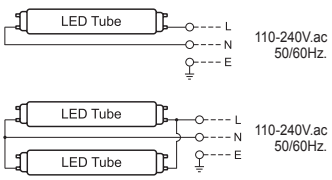
Electronic ballast for fluorescent lamp;
2x 14W., 2x 28W., 2x 18W. and 2x 36W.



LED Tube without driver

1x Lamp

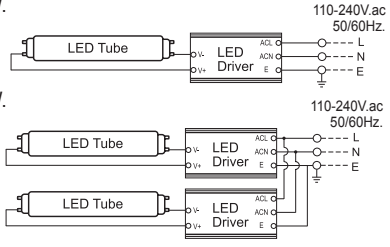
2x Lamp



LED Tube with driver (25W. only)

1x 25W.

2x 25W.



Lighting: Fluorescent & LED Lighting Fixture (Pendant), EARS Series

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 22

ALLOY ELECTRIC PRODUCTS — A QUALITY PRODUCT

Catalogue Number Logic

EARS - ■■■ ■■■ D - □ - □□

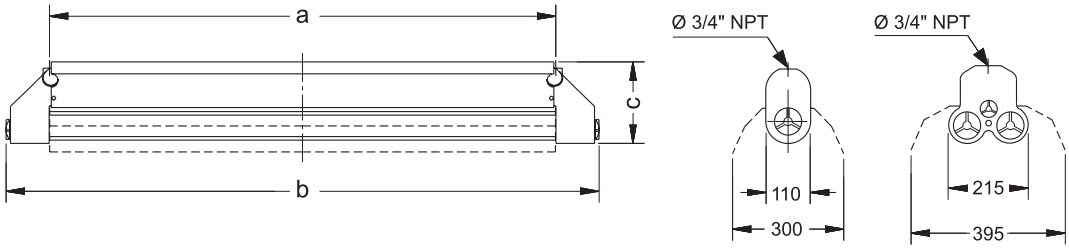
Series	Lamp Watt	Type	LED Driver	Accessories	Entries
	(see ordering requirement table below)	none: Fluorescent lamp LED: LED tube	D: with driver (25W LED tube)	G: Protective guard R: External reflector E: Emergency power unit	N2: Ø3/4" NPT

Ordering Requirements

Cat. No.	Lamp Watt	Voltage	Ballast	Temp. Class (for zone 1 & 2)		Max. Surface Temp.* (for zone 22)		Volume (dm^3)	Dimension in mm.			Approx. Weight (kgs.)
				Ta 40°C	Ta 50°C	Ta 40°C	Ta 50°C		a	b	c	
T8 Fluorescent Lamp												
EARS-118-□	1x 18W.	220-240V.ac 50/60Hz.	Electronic	T6	T6	T85°C	T85°C	3.74	567	722	198	12.15
EARS-218-□	2x 18W.							4.45				17.10
EARS-136-□	1x 36W.							5.02	1180	1330	198	20.00
EARS-236-□	2x 36W.							7.03				27.35
T5 Fluorescent Lamp												
EARS-114-□	1x 14W.	220-240V.ac 50/60Hz.	Electronic	T6	T6	T85°C	T85°C	3.74	567	722	198	12.15
EARS-214-□	2x 14W.							4.45				17.10
EARS-128-□	1x 28W.							5.02	1180	1330	198	20.00
EARS-228-□	2x 28W.							7.03				27.35
LED Tube												
EARS-105LED-□	1x 5W.	110-240V.ac 50/60Hz.	–	T6	T6	T85°C	T85°C	3.74	567	722	198	12.15
EARS-205LED-□	2x 5W.							4.45				17.10
EARS-106LED-□	1x 6W.							3.74				12.15
EARS-206LED-□	2x 6W.							4.45				17.10
EARS-108LED-□	1x 8W.							3.74				12.10
EARS-208LED-□	2x 8W.							4.45				17.15
EARS-109LED-□	1x 9W.							3.74				12.10
EARS-209LED-□	2x 9W.							4.45				17.15
EARS-114LED-□	1x 14W.	110-240V.ac 50/60Hz.	–	T6	T6	T85°C	T85°C	5.02	1180	1330	198	12.10
EARS-214LED-□	2x 14W.							7.03				17.15
EARS-115LED-□	1x 15W.							5.02				12.10
EARS-215LED-□	2x 15W.							7.03				17.15
EARS-116LED-□	1x 16W.							5.02				12.10
EARS-216LED-□	2x 16W.							7.03				17.15
EARS-118LED-□	1x 18W.							5.02				12.10
EARS-218LED-□	2x 18W.							7.03				23.15
EARS-120LED-□	1x 20W.							5.02				17.15
EARS-220LED-□	2x 20W.							7.03				25.0
EARS-122LED-□	1x 22W.							5.02				17.15
EARS-222LED-□	2x 22W.							7.03				25.0
EARS-125LEDD-□	1x 25W.	110-240V.ac 50/60Hz.	LED Driver	T6	T6	T85°C	T85°C	5.02	1180	1330	198	17.15
EARS-225LEDD-□	2x 25W.							7.03				25.0

Lighting source; cool white (6500K) are standard and/or warm white (3000K), please specify.

Dimension



Remark * : *The maximum surface temperatures are specified for dust free condition. The dust layer which may cover around the lighting fixture will cause to higher surface temperature.*