



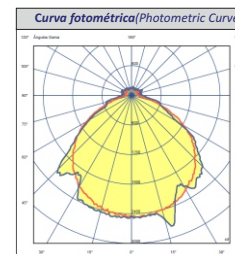
Potência (Power)	Tensão (Voltage)	Fluxo Luminoso (Luminous flux)
2x 8/10W	100~240Vca/Vcc	2694,50 Lm
2x 18W		3716,72 Lm

*Fluxo luminoso referente à CW/ Luminous flux relating to CW.
*Fluxo luminoso NW e WW solicitar./ Luminous flux NW and WW request.

Potência (Power)	Peso/Weight (Kg)			
	S/ Emergência (No Emergency)		C/ Emergência (With Emergency)	
	Al / AC	AL	Al / AC	AL
8/10W	4,6Kg	4Kg	7,1Kg	6,56Kg
18W	8,9Kg	8Kg	12,51Kg	10,5Kg

Marcação/Marking	
Gases(Gases)	Ex nR IIC T* Gc
	Ex ec IIC T* Gc
Pó(Dust)	Ex tb IIIC T* Db
Classe de Temperatura (Temperature Class)	T6/T85°C
Grau de Proteção (IP) (Protection Degree)	IP66/IP67 (AC)
	IP66W/IP67W (Al, AL)
Zonas(Zones)	2, 21 e 22
Temperatura de Operação (Operation temperature)	-20°C ≤ Ta ≤ +50°C

Temperatura de cor CCT- Correlated Color Temperature	
CW	5700K
NW	4000K
NW	5000K
WW	3300K



Descrição do Produto/Product description

Luminária metálica TUBO LED respiração restrita com ou sem sistema de emergência;

Corpo: Aço carbono, aço inox ou alumínio copper free;

Cor: Branca. Outras sob consulta;

Diffusor: Policarbonato de alta resistência mecânica com proteção a raios UV;

Refletora: Branco;

Lâmpada: LED;

Porta lâmpada: Conector;

THD: ≤10%;

IRC: >70;

Aprovações: LM80, Lm79;

Microchave: Equipamento de segurança que interrompe a alimentação;

Fator de Potência: > 0,95;

Frequência: 50/60Hz;

Bateria: Autonomia: mínimo 1:30 h. Atendendo a norma NBR 10.898:2013;

Entrada: Por prensa cabo (Ver Tabela);

Terminais: Para cabos de até 4mm²;

Aterramento Externo: Disponível;

Impacto: Ik08;

Vida Útil: ≥ 60000 horas;

Garantia: 5 anos;

Normas Técnicas: ABNT NBR IEC 60079-0/1/7/18/31,
ABNT NBR IEC 60529;

Nota: Outras tensões sob consulta.

Certificado: Ex TÜV 12.2172.

LED TUBE light restricted breathing with or without emergency system;

Body: Carbon steel, stainless steel or copper free aluminum;

Color: White. Others under consultation;

Diffuser: High mechanical strength polycarbonate with UV protection;

Reflective: White;

Lamp: LED;

Bulb port: Connector;

THD ≤: 10%;

IRC: >70;

Approvals: LM80, Lm79;

Microkey: Safety equipment that interrupts the power supply;

Power factor: > 0.95;

Frequency: 50/60Hz;

Battery: Autonomy: Minimum 1:30. Meeting NBR 10,898:2013;

Input: By cable press (See Table);

Terminals: For cables up to 4mm²;

b: Available;

Impact: Ik08;

Service life: 60000 hours ≥;

Warranty: 5 years;

Technical standards: ABNT NBR IEC 60079-0/1/7/18/31,
ABNT NBR IEC 60529;

Note: Other voltages on request.

Certificate: Ex TÜV 12.2172.



Suporte Simples (SP)
(Simple Support)

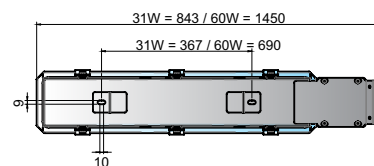
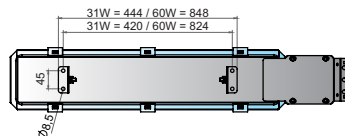
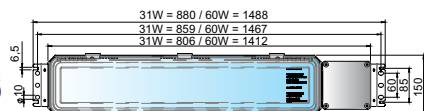


Suporte Teto Parede Angular (TA)
(Bracket Ceiling Angular Wall)

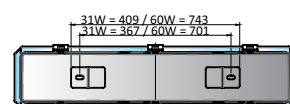
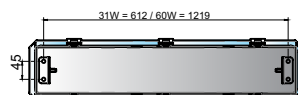
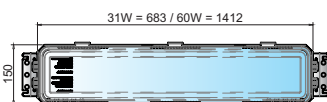


Suporte Z (ZZ)
(Support)

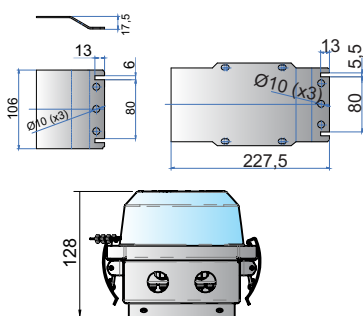
Emergência
(Emergency)



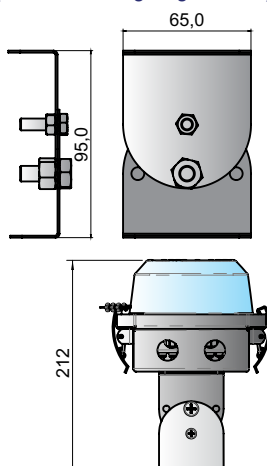
Normal
(Normal)



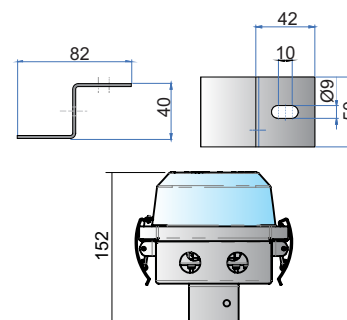
Suporte Simples - (SP)
(Simple Support)



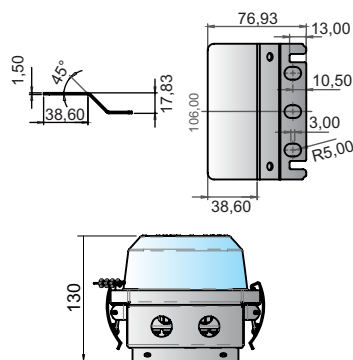
Suporte Teto parede Angular - (TA)
(Bracket Ceiling Angular wall)



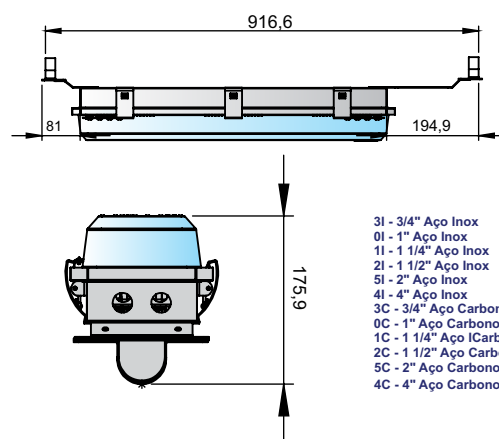
Suporte Z - (ZZ)
(Support)



Suporte Curto- (SC)
(Short Support)



Suporte Abraçadeira Tubular
(Short Support)



3I - 3/4" Aço Inox
0I - 1" Aço Inox
1I - 1 1/4" Aço Inox
2I - 1 1/2" Aço Inox
5I - 2" Aço Inox
4I - 4" Aço Inox
3C - 3/4" Aço Carbono
0C - 1" Aço Carbono
1C - 1 1/4" Aço Carbono
2C - 1 1/2" Aço Carbono
5C - 2" Aço Carbono
4C - 4" Aço Carbono

PRENSA CABOS E/OU TAMPÕES (Cable grand and/or stopping plug)			ALUMÍNIO Aluminum	LATÃO Níquelado Nickel brass	ÁÇO INOX Stainless Steel	POLIAMIDA Polyamide
MODELO (Model)	ROSCA (Thread)	RANGE (Range)				
PRENSA CABO (Cable Press) A2F 148	M20P	3,5-11,5	02A	02L	02I	N/A
	M20G	8,0-16,0	03A	03L	03I	
	M25P	8,0-16,0	04A	04L	04I	
	M25	13,0-20,0	05A	05L	05I	
PRENSA CABO (Cable Press) E1F 147	M20P	8,0-11,5/12,9-15,8	07A	07L	07I	
	M20G	11,0-13,5/15,5-20,8	08A	08L	08I	
	M25	13,0-19,5/20,3-27,2	09A	09L	09I	
	M20P	6,0-12,0 / 9,5-16,0	10A	10L	10I	
PRENSA CABO (Cable Press) E1F 160	M20G	8,0-14,0 / 12,5-21,0	11A	11L	11I	
	M25	10,5-19,5 / 16,5-25,0	12A	12L	12I	
	M25P	8,0-14,0 / 12,5-21,0	13A	13L	13I	
	M20P	6,0-12,0	N/A			15P
PRENSA CABO (Cable Press) A2 159	M20	10,0-14,0				16P
	M25	6,0-14,0				17P
	M25G	14,0-18,0				18P
TAMPÃO (Cap) 158	M20	N/A	20A	20L	20I	20P
	M25		21A	21L	21I	21P

Sobressalentes/Spare	
Código(Code)	Item(Item)
ML010NDIF2PO	CJ Difusor 8/10W
ML010NDIF4PO	CJ Difusor 18W
ML010CJDIV007C	Fecho Carbono
ML010CJDIV007I	Fecho Inox
ML010CJDIV31C	CJ do Fecho 8/10W Carbono
ML010CJDIV60C	CJ do Fecho 18W Carbono
ML010CJDIV31C	CJ do Fecho 8/10W Inox
ML010CJDIV60C	CJ do Fecho 18W Inox
MLAVFNCJ0055	Inversor 31W
MLAVFNCJ0056	Inversor 60W
ML010NDIF2PO	Vedação 8/10W
ML010NDIF4PO	Vedação 18W

Tensão/Voltage (°)
 1 = 100 ~ 240 Vac {On/On}
 3 = 100 ~ 240 Vac {Off/On}
 9 = 100 ~ 240 Vac
 Vca = Vac / Vcc = Vdc

Modelo/Model
Luminária/ Luminaire
Maccomevap

Material(Material)

A - Alumínio/Aluminum
 I - Aço Inóx/Stainless Steel
 C - Aço Carbono/Carbon Steel

M L 011 P2 2 9 I SP + 15P + 15P + 20P + 20P
 A B C D

**Quantidade de Lâmpadas
(Amount of light bulbs)**

P1 = Para uma lâmpada
 For one lamp

P2 = Para duas lâmpadas
 For two lamps

1L = Com uma lâmpadas
 With one lamps

2L = Com duas lâmpadas
 With two lamps

Potência(Power)

1= 8/9/10W
 2= 20W

Nota: As entradas não escolhidas
 devem ser preenchidas com "000".
Note: Unchosen entries must be
 filled with "000".

Suporte(Support)

De acordo com desenhos acima
 (According to Drawings Above)
 Ex: SP- Suporte simples
 (Simple support)

