

# PROTECTA

## NORMAL and EMERGENCY LIGHTING Ex n FLUORESCENT

The Protecta Category 3 Ex n luminaire combines the strength and integrity of the Category 2 increased safety enclosure with the Category 3 lamp and control gear package used in the Sterling.

The range is suitable for T8 tubular fluorescent lamps in the nominal 18W and 36W sizes.

Protecta has excellent maintenance features as it is constructed using glass reinforced polyester (GRP) and polycarbonate which resist saline and other corrosive environments. A major feature of the luminaire is the strength of the enclosure and mounting points together with the very high degree of ingress protection afforded by the simple reliable construction.

The protection is Ex n with IP66/67 sealing for ignitable gas and dust applications. The Protecta is certified under the ATEX 94-9-EC directive for Categories 3 G and 3 D.

Easy of access to lamps and control gear means that installation and maintenance will be completed quickly and efficiently. The Protecta offers the facility of four cable entries. The standard range has electronic control gear. Conventional low loss control gear with electronic start is available as an option. An emergency version with 3 hour duration is available.



### Standard Specification

### Features

Type of Protection	Ex nA (Non-sparking) Dust protected enclosure	Full length easy access diffuser clamp
ATEX Classification	Group II Category 3 G D	Simple rugged construction
Area Classification	Zone 2 and Zone 22 areas to EN 60079-10 and EN 50281-3 with installation to EN 60079-14 and EN 50281-1-2	Hinged cover
Apparatus Standard	EN 50021 EN 50281-1-1	DTS-01 deluge tested
Certificate Coding	EC Type Examination Certificate BAS01ATEX3276 ⊕ II 3 G D EEx nA (refer to table for T rating and Ambient)	Standard fixing centres
Enclosure	GRP body with polycarbonate cover and brass suspension points	High frequency control gear gives 50/60Hz operation, high power factor correction and regulation of lamp output
Reflector Entry Termination	White polyester painted zinc coated steel 4 x M20 cable entries, 2 at each end 3 core 6mm <sup>2</sup> max. conductor with looping and 16A rating through wiring (4 core on emergency)	Easy access to suspended control gear tray
Installation	Two M8 tapped brass inserts located on rear of body. (thread depth 12mm)	
Lampholder Lamp Type	G13 (Bi-pin) T8 tubular fluorescent	
Control Gear	High Frequency ballast housed within sealed enclosure, Emergency - electronic charger/inverter housed in sealed enclosure, Ni-Cd batteries	
Relamping Burning Position	Quick release diffuser clamp and hinged cover Universal	
Ingress Protection	IP66/67 to EN 60529	
Electrical Supply	220-240V 50/60Hz	
Battery Duration	Ni-Cd battery 6V/4Ah 3 hours	
Emergency Output	10% of one lamp	

# ATEX CATEGORY 3 ZONE 2 & 22 APPLICATIONS

Std. Cat No.	Wattage	T Class (Gas)	T°C (Dust)	Ambient °C	Weight
PRGN/118/BI	1x18W	T4*	95	50	5.9kg
PRGN/218/BI	2x18W	T4*	95	50	6.2kg
PRGN/136/BI	1x36W	T4*	95	50	9.6kg
PRGN/236/BI	2x36W	T4*	95	50	10.0kg
PRGN/136/BI/EM	1x36W	T4*	95	50	12.2kg
PRGN/236/BI/EM	2x36W	T4*	95	50	12.6kg

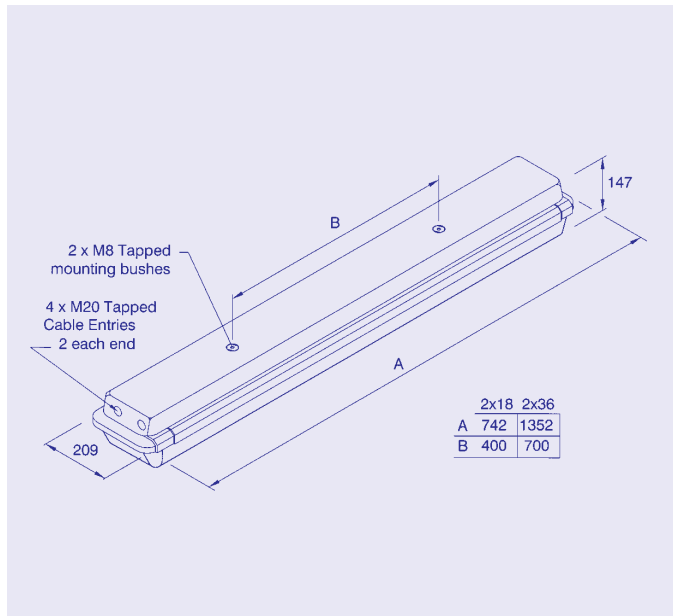
\* T class and ambients vary for copper and iron control gear. Contact Chalmit sales for details.

## Options - Suffix to Catalogue No.

- /\_\_\_ Specific voltage (220 or 254 only available with copper & iron gear)
- /ES Copper and iron control gear (Non-emergency only)
- /60 60Hz (copper and iron versions only)
- /M25 M25 Entries
- /3P Three phase termination
- /MF Mains fuse
- /IS Isolation switch (coding EEx nC IIC)

## Applications

Zone 2 hazardous areas  
 Petrochemical process areas  
 Sewage treatment plants  
 Process skid manufacturing  
 Distilleries  
 Gantry and walkway lighting



## Accessories (Should be ordered separately)

## Catalogue Order Code

Offset ceiling bracket assembly	SPRO4-0002
Pole mounting bracket assembly (38/50 diameter poles)	SPRO4-0003
C' form hook type ceiling bracket assembly	SPRO4-0005
Flush mounted wall bracket assembly	SPRO4-0006
18W wall mounting outreach bracket (use with SPRO4-0003)	NPRO4-0008
36W wall mounting outreach bracket (use with SPRO4-0003)	NPRO4-0012
Eyebolt brackets (set)	SPRO5-0005
Looping Kit (Allows looping from both ends of luminaire)	SPROT-0021

Product design and specifications are subject to change without notice, please check the Chalmit website for latest specifications.



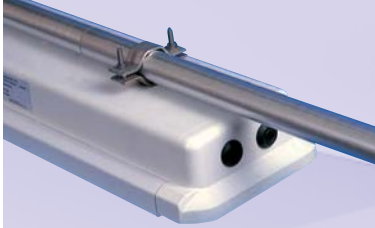
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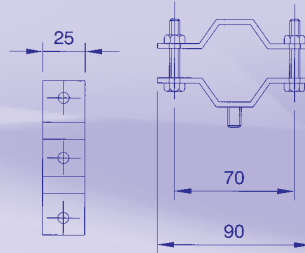
# PROTECTA III

## Pole Mounting Bracket

Cat No. SPRO4-0003

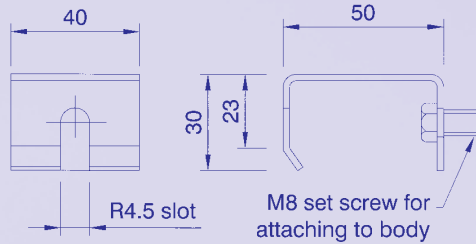


Pole mounting bracket to suit pole diameter 38mm - 50mm  
Cat No. SPRO4-0003  
Other sizes available on request.



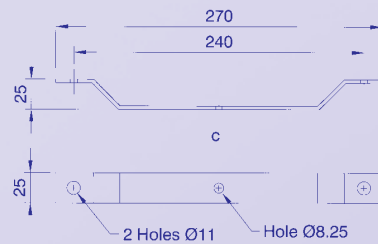
## Hook Type Ceiling Bracket

Cat No. SPRO4-0005



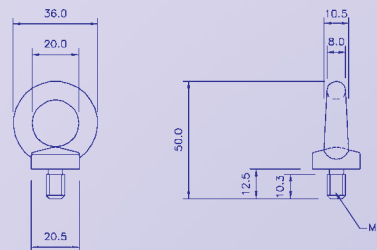
## Ceiling Mounting Bracket

Cat No. SPRO4-0002



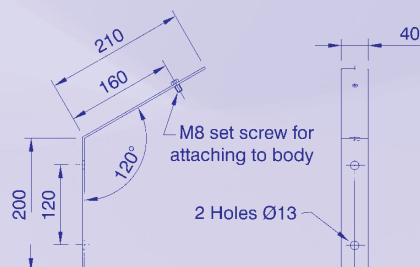
## Eyelet Mounting Bracket

Cat No. SPRO5-0005



## Flush Mounting Wall Bracket

Cat No. SPRO4-0006

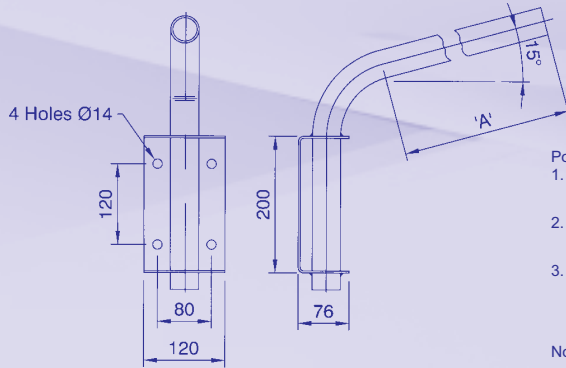


Note: All brackets are made from 316 Stainless Steel

# MOUNTING OPTIONS

## Wall Mounting Outreach Bracket

Cat No. NPRO4-0007/0008/0012



NPRO7-0007  
18W & 36W Spigot Entry

Pole length 'A' for use with the following:

1. 18W spigot entry body, size 'A' = 250mm  
Cat No. NPRO4-0007
2. 18W body c/w pole clamps, size 'A' = 650mm  
Cat No. NPRO4-0008
3. 36W body c/w pole clamps, size 'A' = 1100mm  
Cat No. NPRO4-0012

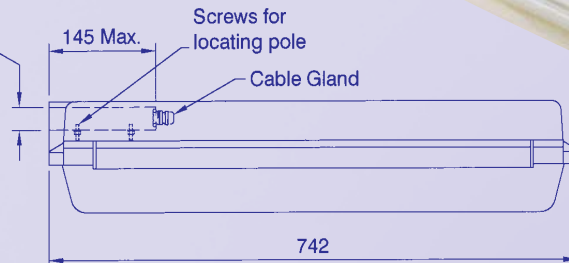
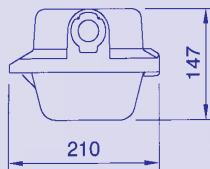
Note: Pole clamps for items 2, 3, & 4 must be ordered separately, see product accessories.



## 18W Spigot Entry

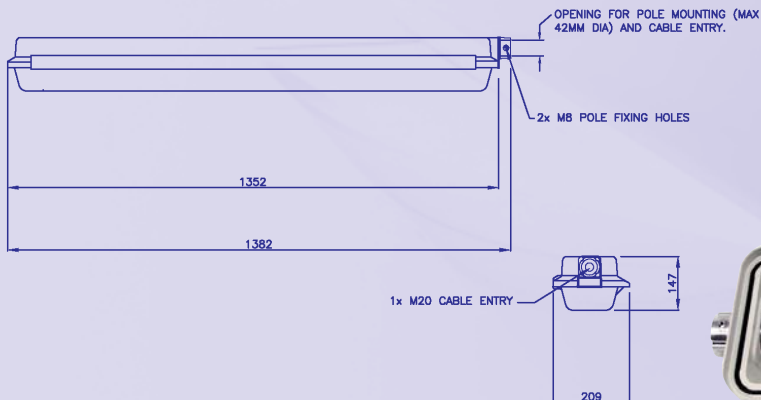
Cat No. PRGE/218/BI/SE

Opening for pole mounting  
and for cable entry - 36-44mm



## 36W Spigot Entry

Cat No. PRGE/236/BI/SE



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