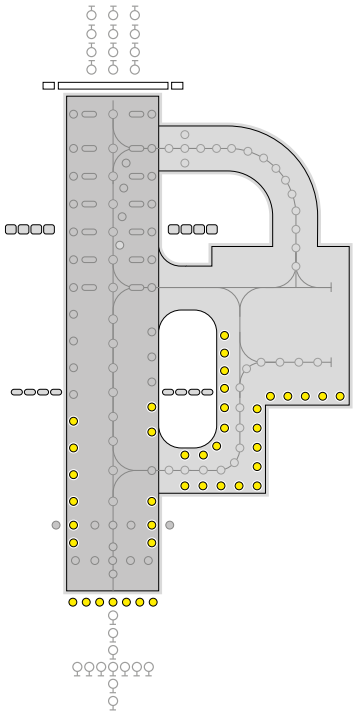
Tungsten halogen technology

ZA292

Inset taxiway

Omni-directional inset light

ZA291 Low Intensity Runway End
ZA292 Taxiway Edge (Blue)
ZA293 Runway
ZA295 Low Intensity Threshold
ZA298 Intersection End Apron light



Features

- Body casting manufactured from aluminium alloy for lightness, strength and durability
- IEC body style as standard, PSA 8" 2 hole and 8" 3 hole versions available
- 3 hole body option for direct installation to SRA8/13 adaptor ring
- Long life lamps (objective life of 1500 hours at full brilliancy)
- Prism removal and replacement achieved without the need for adhesive or sealants
- Colour beam variations achieved by dichroic coated or coloured glass
- Lamp by-pass options available if required
- Suitable for direct installation in a ZM109, ZM181 PSA or ZM203 IEC seating pot with only two point fixing
- Pre-focused optics to simplify maintenance procedures
- Low profile (10mm)
- Commonality of parts with the ZA181 and ZA280 inset fittings
- Light channel within 5mm of Grade
- Natural anodised finish (as standard), powder coated NATO green or golden yellow (Special Order)
- IMM available on request

Compliance with standards

FAA	AC 150/5345-46D L-852E, L-852F, F-852T
ICAO	Annex 14 circular guidance 5.3.6, 5.3.9.8, 5.3.9.9
BS3224	Part 5, inset fittings
IEC	61827
STANAG	3316 Annex C fig 3, taxiway edge 5.3.18.7, 18.8 apron lights 5, 3, 27

Application

Omni-directional inset fitting for Taxiway, Helipad, LI Runway Edge and general applications.

Options

- ZM109 8" seating pot (wet) - PSA 2/3 Hole
- ZM181 8" seating pot (dry) - PSA 2 Hole
- ZM203 (I) seating pot (dry) - IEC
- ZM203 (I) seating pot (wet) - IEC
- 12" and 15.5" PSA & FAA L868 cannister adaptors
- ZS023 sighting device
- ZM109, ZM181, ZM203(I) installation jigs

Electrical supply

Suitable for use in 6.6A airfield lighting circuits normally supplied from 1 x 45W, 65W or 100W isolating transformer. 120V and 240V mains supply versions also available. Power consumption is either 30W, 36W, 40W, 49W or 105W depending upon type of lamp fitted.

Packaging data

Net weight	3kg
Gross weight	3.5kg
Carton size	230mm(w) x 230mm(d) x 146mm(h)

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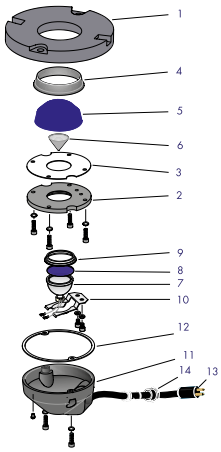
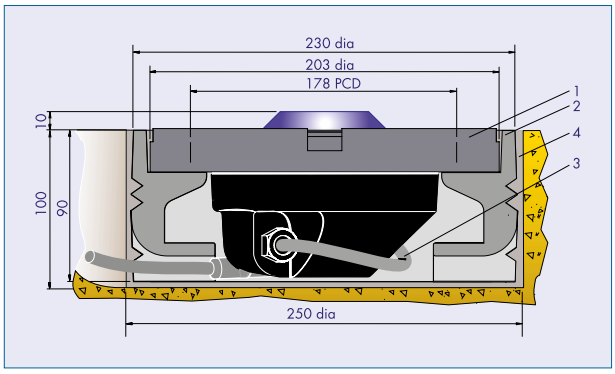
Components

1	Body casting (standard PSA)	Not Saleable
	or (SRA)	Not Saleable
	or (IEC)	Not Saleable
2	Prism clamp (standard)	SLC21307
	(SRA)	SLC21308
	(IEC)	
3	Prism clamp gasket	SLC21309
4	Prism gasket	SLC33090
5	Glass refraction:	
	Green	SLC19183
	Yellow	SLC19181
	Red	SLC19182
	Blue	SLC19180
	Clear	SLC16077
6	Reflector (Integral with 3)	SLC28051
7	Reflector lamps	
	30W	SLC08083
	36W	SLC08081
	48W	SLC08065
	105W (red light)	SLC08072
8	Glass filters (with clear):	
	Green	SLC19149
	Yellow	SLC19157
	Red	SLC19151
9	Lamp gasket	SLC33077
10	Lamp retaining spring	SLC32039
11	Bottom cover casting (standard)	Not Saleable
	or bottom cover spinning (SRA)	Not Saleable
12	Bottom cover gasket	SLC33080
13	'B' type plug lead	SLC13001
14	Cable gland assembly	SLC21114/5/6



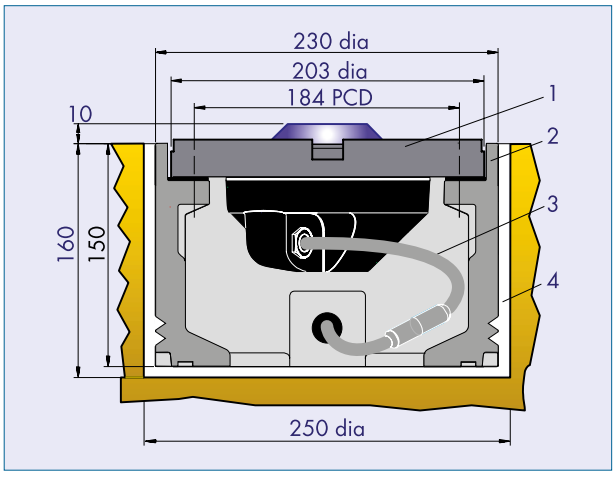
Typical installation methods

ZA292 installed in ZM109 seating pot



1. ZA292 fitting
2. ZM109 seating pot
3. Secondary lead
4. Grout

ZA292 IEC installed in ZM203(I) wet seating pot

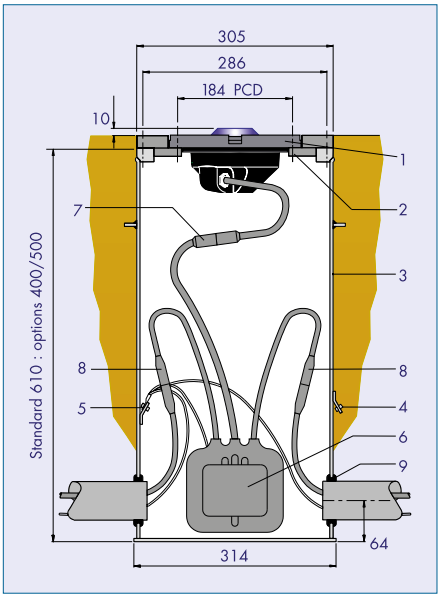


1. ZA292 IEC fitting
2. ZM203(I) seating pot
3. Secondary lead
4. Grout

Dry seating pot arrangement also available

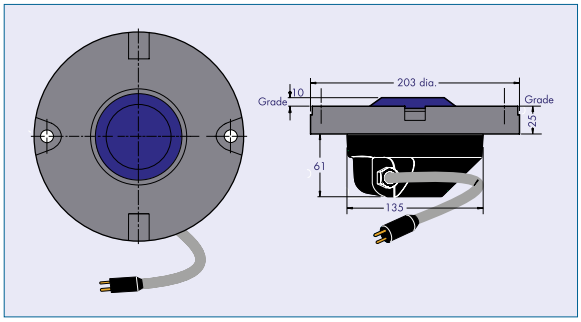
Note: ZA291, ZA293, ZA295, ZA298 are generic with the ZA292

ZA292 IEC installed on FAA L-868 base

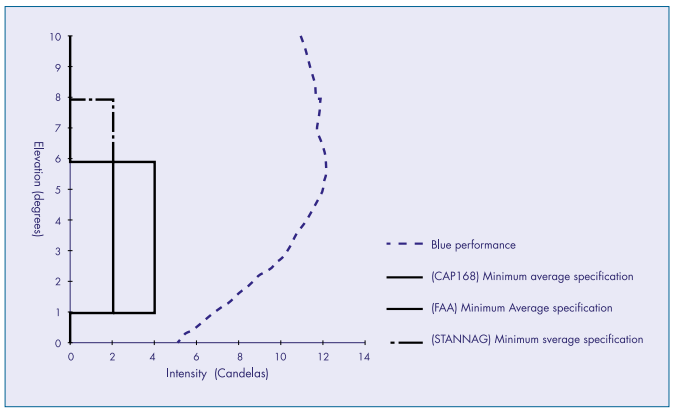


1. ZA292(I) fitting
2. 12" mounting adaptor
3. FAA L-868 base (one piece)
4. Outer earth terminal (optional)
5. Inner earth terminal (optional)
6. Isolating transformer
7. Secondary connection
8. Primary connection
9. Grommet

ZA292 General arrangement



Photometric performance



Specification

TYPE: Blue omni-directional, taxiway, or low intensity taxiway edge and circular guidance.

The taxiway light shall comply with ICAO Annex 14 for use in category I, II and III all weather operations, CAP168, BS3224 Part 5, FAA and STANAG 3316. Fittings shall be modular in design with the main casting manufactured in aluminium alloy, suitably protected against corrosion and finished in natural anodised or golden yellow or NATO green.

The optical system shall comprise of a 48 MRCS refelector lamp. One glass prism refractor shall be accurately located in the main casting, without the need for additional adhesives or sealants, to direct the light beams such that no re-focusing is required on installation, maintenance or in service.

Lamp replacement shall be easily effected from the bottom of the fitting. The objective lamp life at maximum intensity shall not be less than 50,000 hours on a constant current series circuit.

The light shall interface with atg airports ZL836 to operate from a 6.6 Amp AGL Circuit.

The light fitting shall have an upper surface forming a smooth sloping face projecting not more than 12mm above the pavement surface. The fitting shall resist all stresses imposed by impact, rollover and static loads of present day aircraft without damage to the fitting or to aircraft and vehicle tyres.

The fitting shall be suitable for installation in the pavement surface in a cast aluminium seating pot, type ZM109, or for dry installation applications, type ZM181, or ZM203 IEC. Other mounting adaptors shall be available to allow installation on FAA L868 canisters.

A handbook shall be provided giving full installation, operation and maintenance instructions together with a detailed parts list.

Variants

ZA291 - Low Intesity Threshold

ZA292 - Taxiway Edge (Blue)

ZA293 - Runway Circular Guidance (White)

ZA295 - Low Intensity Runway End

ZA298 - Apron Light (Yellow)

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