

QUARTZ EVO BOLLARD

AL9100 - AL9200 SERIES

Floodlighting for rail infrastructure, carparks, retail parks and public areas.

IP65

CE

UK
CA

Abacus[®]

Leaders in Lighting

Quartz Evo Bollard

AL9100 (GRP) & AL9200 (alloy/steel) Series

Floodlighting for rail infrastructure, car parks, retail parks and public areas.



Specifications & key features

The Quartz Evo is a next-generation LED bollard that combines the proven design of the original LED Quartz with advances in optical performance and material technology. Available in non-conductive, passively safe Glass-fibre Reinforced Polyester (GRP) for rail applications, as well as durable steel/alloy options, it also supports the retrofit of alloy head units onto existing steel bases. With a 50% reduction in power consumption compared with the original product, the Quartz Evo delivers improved efficiency, enhanced performance and market-leading spacing between bollards, setting a new technical standard for modern exterior lighting.

Technical Specifications

	Asymmetric	Symmetric
Power (Wattage):	12.8W	16.2W
Luminous Flux:	1590 lm	2050 lm
Colour Temperature:	4000K (Other option 3000K)	
Colour Rendering Index (CRI):	Ra70	
Body Colour:	Jet Black: RAL9005 as standard (Other options available)	
Lifetime:	L90B10 > 80,000hrs at 25°C Ambient temperature	
Dimensions: (H x W)	1325 x 187mm Root base 950 x 187mm Flange base	
Weight:	GRP Head: 3.6kg - Alloy Head: 4.5kg Root base: 5.6kg Flange Base: 6kg	
Working Temperature:	-40°C ~ +45°C (50°C optional)	
IP Rating:	IP66	
IK Rating:	IK10	

Spacing & Example Levels

Beam Type	Spacing (m)	Average LUX	Minimum LUX	Uniformity
Asymmetric	10	21.1	10.8	0.51
	12	17.6	5.9	0.34
	15	14.1	2.5	0.18
	18	11.8	1.2	0.10
	20	10.2	0.8	0.08
Symmetric	10	17.4	9.6	0.55
	12	14.5	6	0.41
	15	11.6	2.8	0.24
	18	9.7	1.4	0.14
	20	8.7	1.0	0.11

This information is based on a straight, 3m wide path with no obstructions and bollards 700mm back to centre

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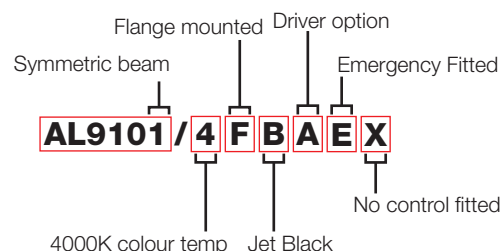
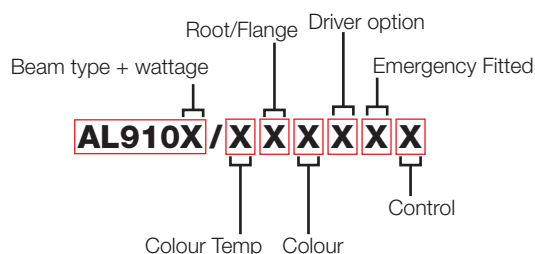
Glass-fibre Reinforced Polyester

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Product Code Selector

Beam Type & Power	Colour Temperature	Mounting Method	Body Colour	Driver Options	Emergency Battery Back Up	Control
Symmetric (15W) = AL9101	4000K = 4	Flange Plate = F	RAL9005 (Jet Black) Standard = B	1-10 = A	Fitted = E	Not Fitted = X
Asymmetric (12W) = AL9102	3000K* = 3	Root Mounted* = R	RAL9006* (Silver) = S	DALI = B	Not Fitted = X	
			RAL7016* (Anthracite Grey) = G			

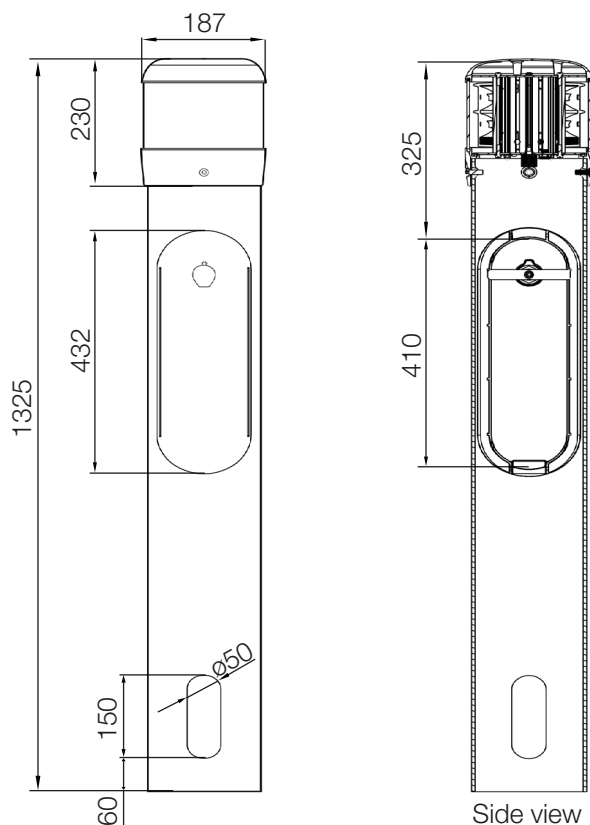
Example Product Selection:



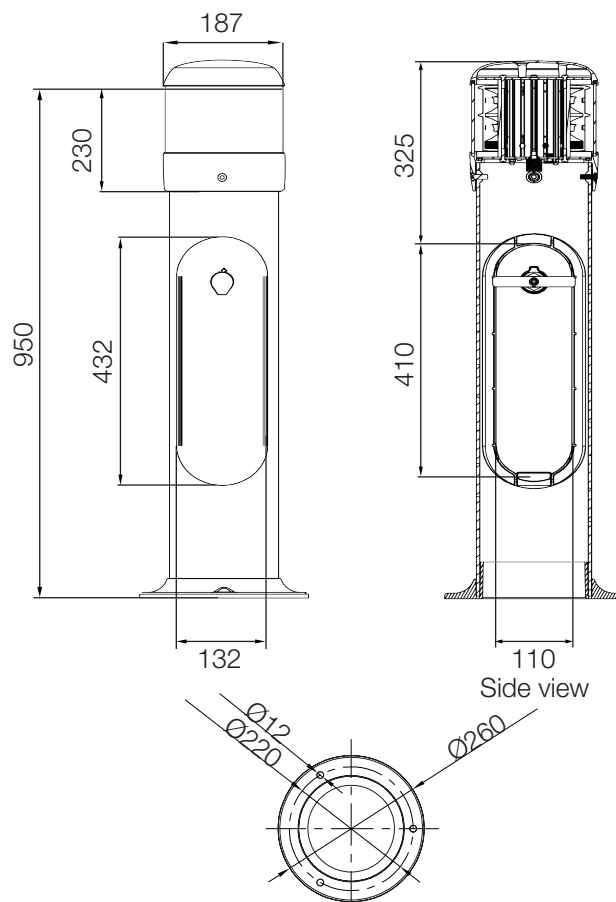
*Please contact Abacus for further details on non-standard options, MOQs may apply.

Dimensions

GRP Root mounted:



GRP Flange plate:



Quartz Evo Bollard

AL9100 (GRP) & AL9200 (alloy/steel) Series

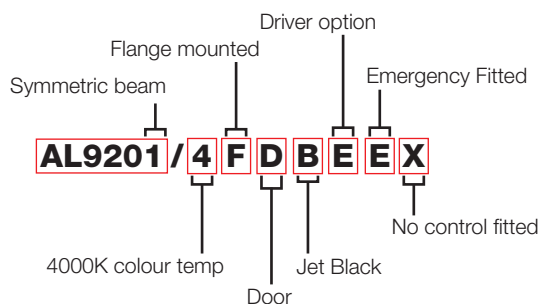
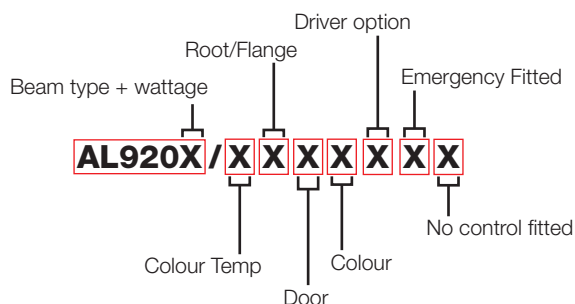
Alloy/Steel Series (AL9200)

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Product Code Selector

Beam Type & Power	Colour Temperature	Mounting Method	Body Colour	Door Option	Driver Options	Emergency Battery Back Up	Control
Symmetric (15W) = AL9201	4000K = 4	Flange Plate = F	RAL9005 (Jet Black) Standard = B	Door = D	1-10 = A	Fitted = E	Not Fitted = X
Asymmetric (12W) = AL9202	3000K* = 3	Root Mounted* = R	RAL9006* (Silver) = S	No Door = X	DALI = B	Not Fitted = X	

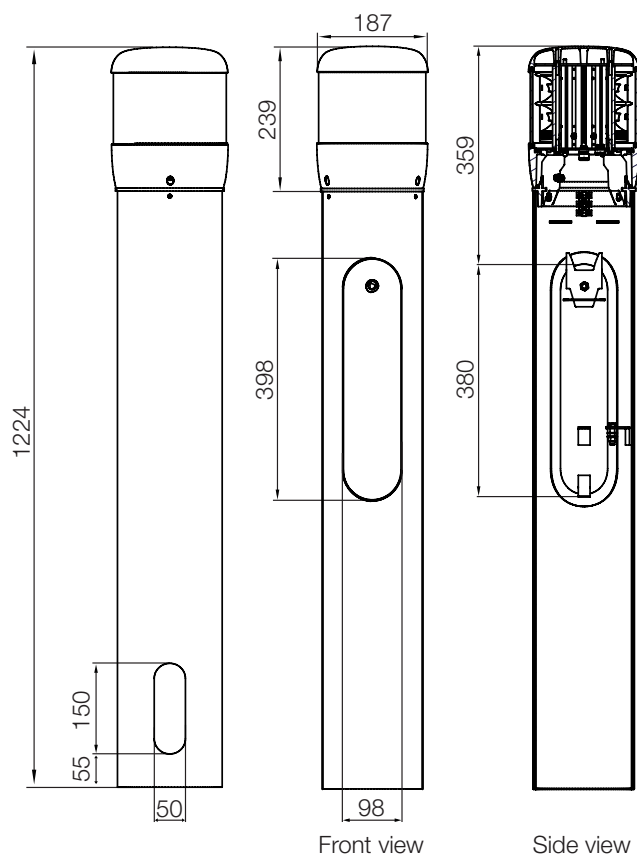
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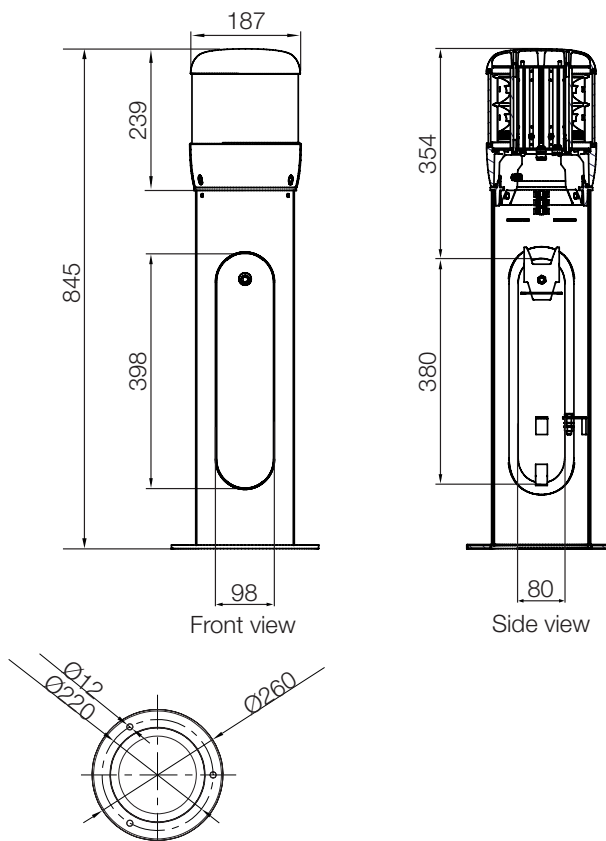
*Please contact Abacus for further details on non-standard options, MOQs may apply.

Dimensions

Alloy/steel Root mounted:



Alloy/steel Flange plate:



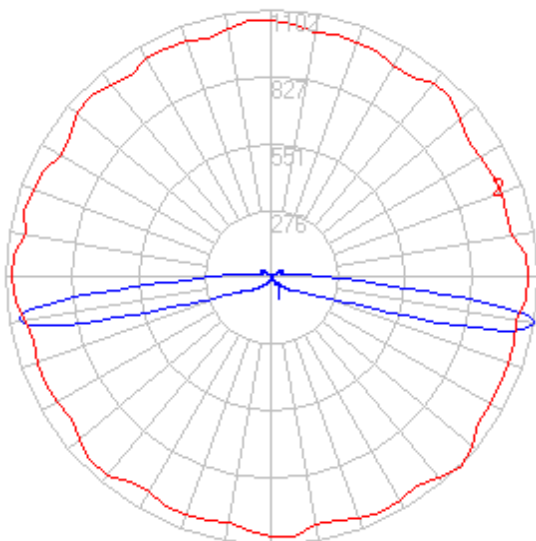
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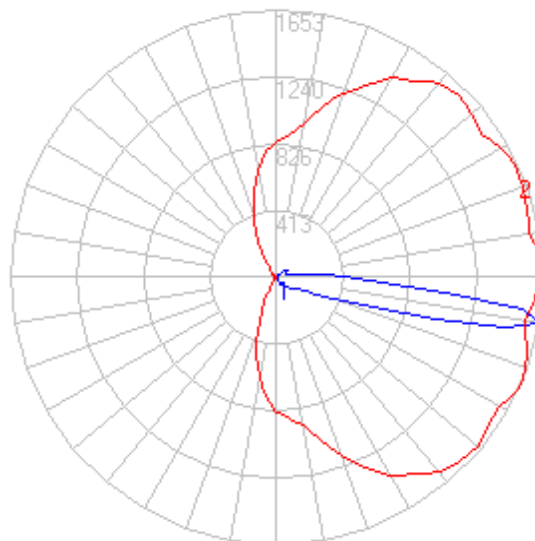
Photometry & Competitor Analysis

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Symmetrical 360°

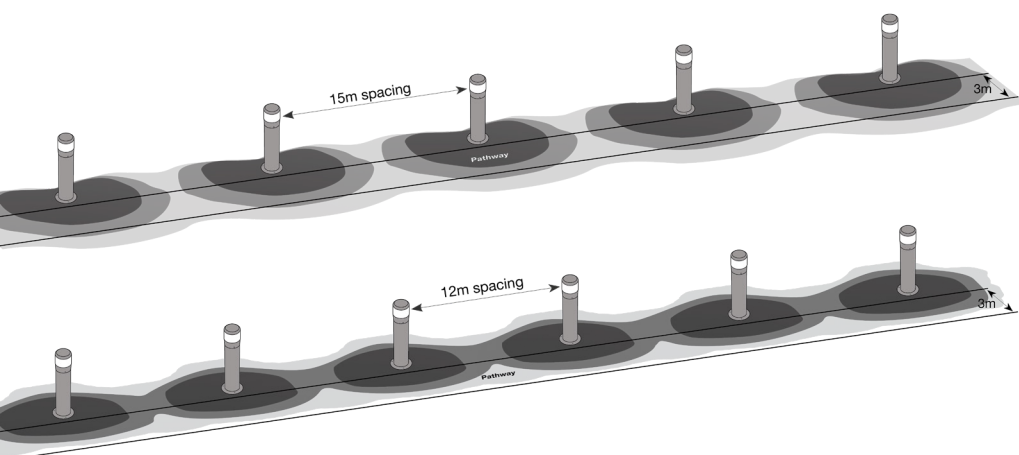


Asymmetrical 180°



Abacus' Quartz Evo Vs. Competitor Spacing

Run Length In Linear Metres:	Quantity Of Bollards Per Run Length	
	Quartz Evo	Leading Competitor
200	14	17
300	20	25
500	34	42



Quartz Evo Bollard:
15m spacing

Closest Competitors Bollard:
12m spacing