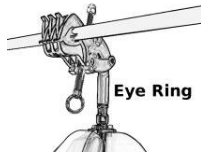


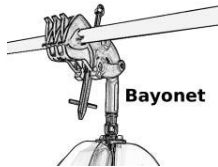


# Data Sheet ROTAMARKA<sup>™</sup>

The Balmoral Engineering ROTAMARKA<sup>™</sup> helps prevent collision of birds, low flying aircraft and equipment with overhead cables and wires by providing a 360 degree rotating visual warning.



Eye Ring

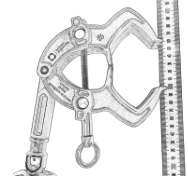


Bayonet

(A)



(B)

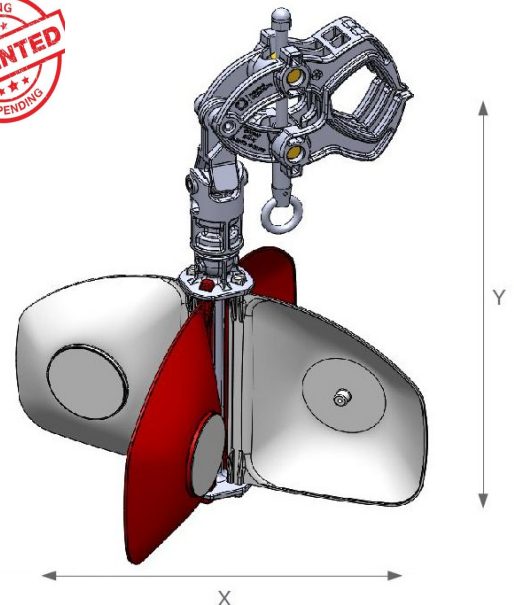


## Part No Table (A)

WM-CS-E-1H-RW	ROTAMARKA <sup>™</sup> Screw Clamp Eye Ring Red White
WM-CS-E-1H-BW	ROTAMARKA <sup>™</sup> Screw Clamp Eye Ring Black White
WM-CS-E-1H-BY	ROTAMARKA <sup>™</sup> Screw Clamp Eye Ring Black Yellow
WM-CS-B-1H-RW	ROTAMARKA <sup>™</sup> Screw Clamp Bayonet Red White
WM-CS-B-1H-BW	ROTAMARKA <sup>™</sup> Screw Clamp Bayonet Black White
WM-CS-B-1H-BY	ROTAMARKA <sup>™</sup> Screw Clamp Bayonet Black Yellow

## Dimensions Table (B)

Y	X	Clamp Closes To (A)	Clamp Opens To (B)	Weight
309mm	335mm	2*mm	50*mm	~800g
Y = Drop from conductor when installed as depicted adjacent				



## Materials Table (C)

Clamp, Body & Fins	Nylon 6
Bearings	Stainless Steel
Pins & Bushes	Brass
Threaded Shaft	Stainless Steel
Lock Nuts	Brass + Stainless Steel
Reflectors	Acrylic

\*Suitability of the conductor are subject to the engineering requirements of the asset owner

## Spacing

The general recommendation is to space the devices 10-30 metres apart or at a minimum of 1-2 Markers evenly spaced between towers or poles. However, please refer to our ROTAMARKA™ Instruction Sheet for more detailed information including guidance for different bird species and applications. This recommendation is subject to the requirements of The Asset owner and dependent on environmental conditions.

## Ratings Table (D)

1	Recommended tightening torque	4Nm*	9	Snow and ice testing	No adverse functional effect on unit, approx. 40g additional load**
2	Clamp material tensile strength	136MPa***	10	Wind Tunnel testing at a maximum of 108kph in accordance with standardised testing protocols	No adverse functional effect on unit
3	Coefficient of drag	1.11*	11	Surface area of fins in a single plane	42,926mm <sup>2</sup>
4	Line load (per unit) At wind speed of 18kph At wind speed of 36kph At wind speed of 108kph	0.8N (82g)* 3.0N (306g)* 27.0N (2753g)*	12	RPM At wind speed of 18kph At wind speed of 36kph At wind speed of 108kph	118* 222* 814*
5	Withstand voltage test	Flash over occurred at an equivalent of 173kv Ø-Ø	13	Corona inception test	Occurred at an equivalent of 193kv Ø-Ø
6	Corrosion test AS 1247-2004 (ISO 10289-1999)	Brass = 7 Stainless Steel = 9-10	14	Corona extinction test	Occurred at an equivalent of 145kv Ø-Ø
7	Testing of clamp assembly to 100°C	No adverse functional effect on unit	15	Ozone resistance of clamp assembly 1000 hour	No adverse functional effect on unit
8	Testing of clamp assembly to -35°C	No adverse functional effect on unit	16	AS 3891.2 2018 Clause 2.3.1 (d)	Compliant

\*Results obtained at a leading Australian University using standardised indoor lab conditions.

\*\*Testing performed in Hokkaido, Japan. Load inclusive of snow/ice build up on device fins per unit.

\*\*\*Results obtained from material data sheet and may vary depending on supplier.

The data herein is an indication of product capabilities in known predetermined lab conditions and actual outdoor environments may vary. Where stated, "unit" refers to a ROTAMARKA™ device.

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