



DA180 Series Intrinsically Safe Giant LED Clusters

For clear indication from a distance and from the side

ATEX Certified Ex II 2G,
Ex ia IIC T4

Available in six colours

Suitable for zones 1 & 2

Tough impact-resistant IP65
housing

Low current (20mA)

Can be supplied as loose parts
or as a wall mounting display

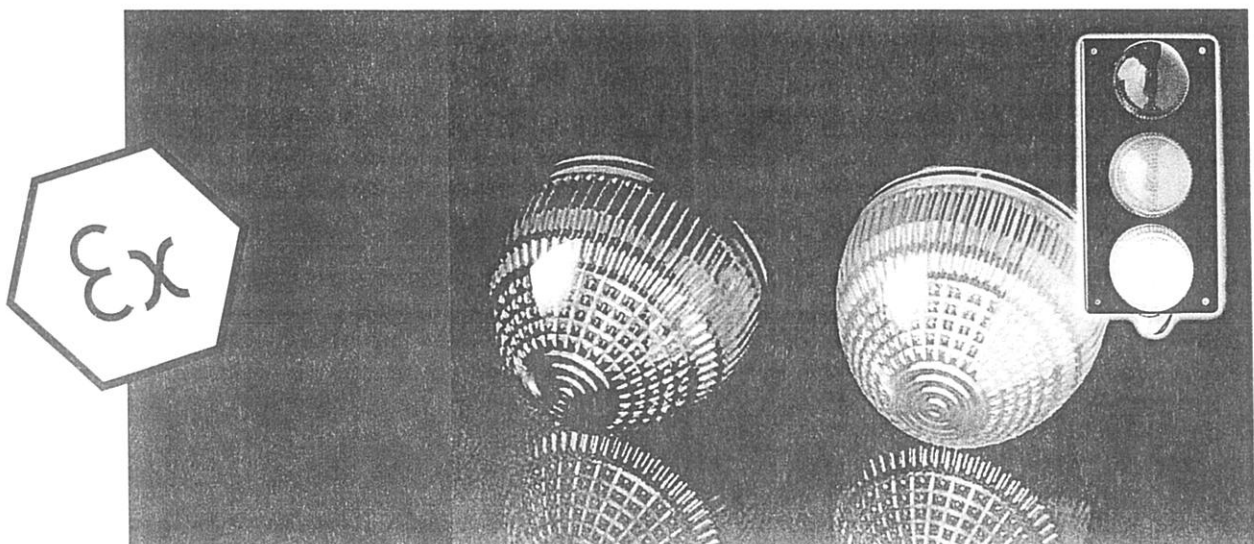
Two clusters operable from a
single IIC power source

66mm diameter lens

The DA180 range of Giant LED Clusters provides extremely clear indication of process conditions for use in both safe and hazardous area. The 66mm diameter lens not only provides clear indication from a distance but is also visible from the side. Available in a choice of six colours (red, green, yellow, amber, blue and white), the DA180 is a perfect choice for many visual warning tasks.

All colours are matched for equal brightness and all are current limited to 20mA with an integral regulator.

In hazardous areas it is possible to combine LEDs from a single IS interface, two for IIC interfaces and four with a IIB interface. The standard LED Cluster can also be supplied pre-installed in a stainless steel or polycarbonate box ready for immediate mounting on-site.



Technical Specification

Colours

The DA180 Series of LED Clusters is available in six colours. Colours are red, green, yellow, amber, blue and white

High Reliability

All LED lamps are designed to provide a minimum of 100,000 hours service life

Low Current Consumption

All LED lamps operate at 20mA or less and feature integral current limiting to maintain consistent brightness over the operating range of the voltage supply

Use in Hazardous Areas

In hazardous areas the LED lamps must be powered through suitable intrinsically safe Isolators or Barriers. Up to two LED lamps can be driven from a single IIC interface

Configuration

It is a simple procedure to replace or change the colour of a panel indicator. Access is from the front of the panel and no tools are required. Simply unscrew the lens and replace the BA9s LED lamp

Certification

ATEX certified to EN60079-0:2006 and EN60079-11:2007

Group II, Category 2G, Ex ia IIC T4 (Ta -20°C to 60°C)

Location

Zones 1 or 2. Gas Group IIC, IIB or IIA, Temp Class up to T4

Certificate No.

KEMA07ATEX0204X

Safety Parameters

Pi = 1W

Ii = 2A

Ci = 0nF

Li = 0mH

Ui = Pi/Ii for a supply circuit with non-linear current limiting

Ui = 4Pi/Ii for a supply circuit with linear current limiting

The device must be powered from an Ex ia IIC certified interface with output parameters lower than those shown above

Supply

With suitable certified interface
18-35VDC, current 20mA

Recommended Interfaces

Zener Barriers: MTL7728+

IS Isolators: MTL5521

Environment

Operating temperature: -20°C to 60°C

Storage temperature: -20°C to 80°C

Humidity: 0-95% RH, non condensing

Compliance

Immunity to EN61000-6-2:2005
Emissions to EN61000-6-4:2007

Construction

Lens - Polycarbonate

Protection

IP65 when panel mounted

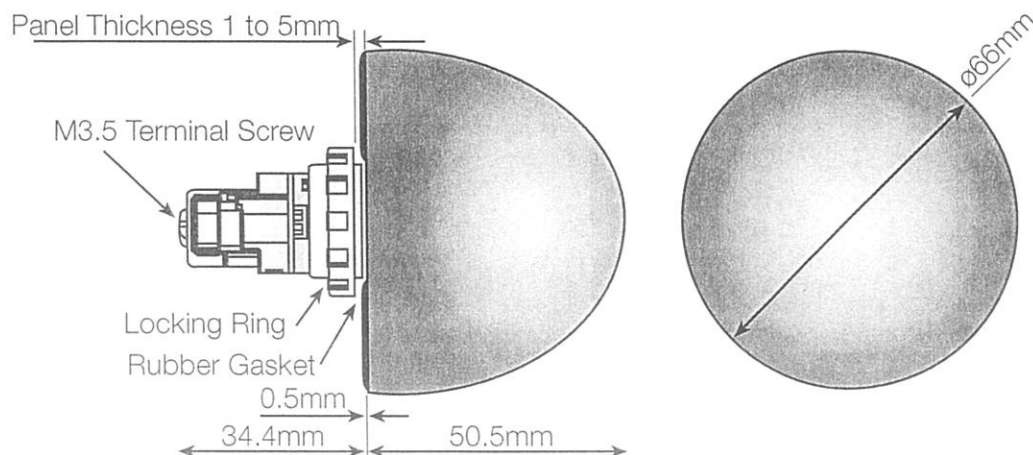
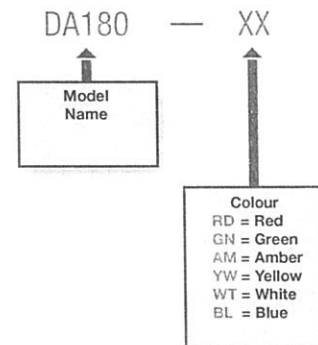
Connections

M3.5 screw terminal for cables from 0.5 to 2.5mm²

Mounting

22.5mm diameter hole
85mm apart

Order Code



Due to our policy of continuous product development, we reserve the right to amend specifications without notice.



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