
DFR30IS Series Intrinsically Safe Display Facias

Backlit LED illuminated displays for all hazardous areas

**ATEX certified Ex II 2G
EEx ia IIC T4**

3 window sizes

**6 window colours, all LED
illuminated**

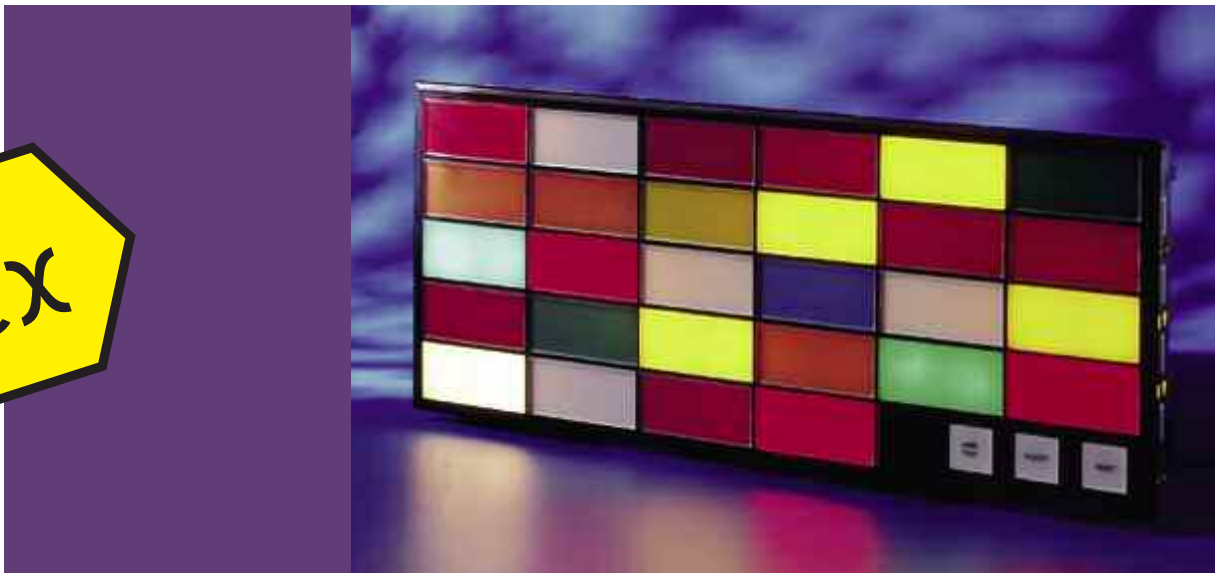
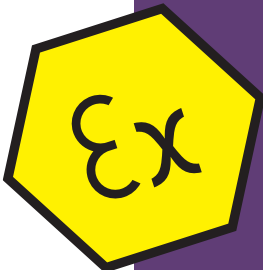
**Modular construction so
displays can be matched to your
exact requirements**

Integral pushbuttons

**Used as part of a hazardous
area alarm system**

The simple backlit flashing display is still regarded as the clearest way of alerting operators to abnormal conditions on complex processes. The DFR30IS Display Facia provides a clear, bright display and is approved for use in zone 1 or zone 2 hazardous areas. This product is often combined with the RTK range of Alarm Annunciators and certified Interfaces to provide a complete Alarm Management System with displays both in the safe and hazardous areas.

As the unit is modular in design, displays can be created in almost any format, arrangement and size making it possible for users to have exactly the configuration needed for the application



Technical Specification

Window Details

The DFR30IS is available in three window sizes: small, medium and large as listed below.

Small: 30 x 30mm
 Medium: 60 x 30mm (W x H)
 Large: 60 x 60mm

Any combination of these window sizes can be supplied in any format, mixed as required in a single display to make up the appropriate matrix required.

Window Colours

All three different window sizes are available in the following six colours

- ▶ Red
- ▶ Amber
- ▶ Yellow
- ▶ White
- ▶ Green
- ▶ Blue

Integral Components

As these Displays are used for alarm indication it is often necessary to include pushbuttons and audibles within the display itself to acknowledge and reset alarms. These are normally fitted in the bottom right hand cell.

Window Marking

Displays can be configured with the required filter colours and film legends to suit the exact customer's requirements or alternatively RTK can supply a template to allow users to create their own legends locally.

Certification

ATEX certified to EN50014:1997 and EN50020:2002
 Group II, Category 2G, EEx 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.

KEMA03ATEX1021X

Safety Parameters

Ui = determined by li and Pi
 li = 2A
 Pi = 1W
 Ci = Li = 0

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

Supply

14-26VDC, current 20mA per 30mm window

Recommended Interfaces

Zener Barriers: MTL7728P+
 IS Isolators: MTL5021

Environment

Operating temperature: 0 to 60°C
 Storage temperature: -20 to 80°C
 Humidity: 0-95% RH, non condensing

Protection

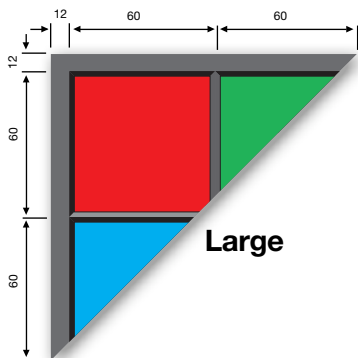
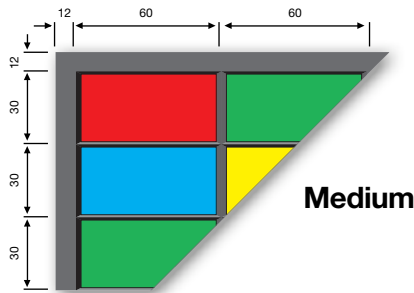
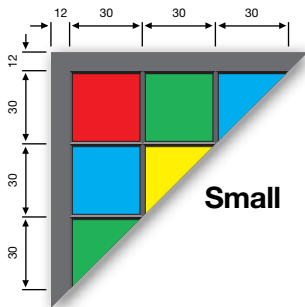
IP41 from the front, IP20 from the rear

Connections

Raising clamp terminals suitable for 2.5mm² cable

Compliance

Immunity to EN61000-6-2:2001
 Emissions to EN61000-6-4:2001



Small: Height = 24 + (rows x 30)
 Width = 24 + (columns x 30)
 Medium: Height = 24 + (rows x 30)
 Width = 24 + (columns x 60)
 Large: Height = 24 + (rows x 60)
 Width = 24 + (columns x 60)

Cutout: subtract 10mm from each dimension



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



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