The P861 LED Lamp provides visual on/off indication of process conditions in both safe and hazardous areas. Available in a choice of six super-bright colours (red, orange, yellow, green, blue and white), they are ideally suited for use as part of a panel mounting indicator or illuminated pushbutton assembly.

The P861 itself is a standard BA9s Intrinsically Safe LED Lamp which can be supplied as part of a pilot light or illuminated pushbutton or alternatively supplied separately to be used in any suitable standard switch or lamp assembly.

With the LED lamp being current limited to take a maximum of only 20mA, it is possible to drive two lamps from a single IIC interface without any effect on the brightness.
Colours
The P861 Series of LED Lamps are available in six super-bright colours. Colours are red, orange, yellow, green, 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
Easy 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 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
With suitable certified interface 18-35VDC, current 20mA

Recommended Interfaces
Zener Barriers: S951-POS, S967-POS
IS Isolators: WIS1211, WIS1212

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

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

Illuminated Pushbutton and Pilot Light
The P861 LED Lamp can be supplied as an integral part of the DA170 Series of Illuminated Pushbuttons. These are industry standard 22mm pushbuttons which can be supplied in a range of different formats such as rotary, non-illuminated and emergency stop.

See separate datasheet for full details

Construction
Housing/mounting collar – Polymide6.6 and FR4 fibreglass
Lens – Polycarbonate

Protection
IP65 when panel mounted, IP20 from the rear

Connections
Screw terminals rated to IP20 minimum for cables from 0.5 to 2.5mm²

Mounting
Lamp – BA9s bulb holder
Pushbutton, Pilot Light – Through 22.5mm diameter hole

Order Code
P861 — XX

Model Name
Colour
RD = Red
GN = Green
AM = Amber
YW = Yellow
WT = White
BL = Blue

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