



# Variance



Variance Integrated Sensor



**Variance is a high light output T5 fluorescent fitting with an integral PIR presence detector and light sensor and the ability to dim down to 10% of full light output - combining versatile control options with excellent lighting performance and low cost of ownership. As such, Variance is ideal for projects requiring energy efficient lighting with automatic, intelligent control in areas with variable occupancy and/or daylight levels.**

In combining presence detection and dimming in relation to daylight levels Variance maximises energy efficiency while providing all of the benefits of T5 fluorescent technology, giving a fast return on investment through low total life costs, including extended re-lamping schedules to reduce maintenance overheads.

The integral PIR presence detector is highly adaptable, offering a range of configurations and 'hold times' to suit the precise control needs of each project.

Variance is available with 4 x 54W and 3 x 80W lamp configurations as standard, with a wide choice of other lamp combinations where required. These open fittings have an IP rating of IP20 and MIRO4 high performance aluminium reflectors folded into a parabola for optimum light output to the working plane.

All Variance fittings provide either partial or full lighting as required and minimise energy consumption. Variance has been designed for ease of installation, using a rear mounting bracket for straightforward installation onto conduit, solid ceilings or lighting trunking. Use of a pre-fitted plug and socket connection ensures ease of connection and isolation. Fittings can also be supplied with a polycarbonate diffuser or wire guard, if required.

#### Luminaire body specification

Variance is manufactured from 0.8mm, punched and folded zinc plated steel finished in epoxy polyester powder paint in RAL9003.

## FEATURES

- High efficiency T5 fluorescent light sources
- Integral PIR presence detector
- Daylight linking
- Dimming to 10% of full output
- High light output for low and high bay applications
- Control gear mounted to rear of chassis for optimum cooling
- Average lamp life of 24,000 hours for reduced maintenance costs\*
- 'Ultra' long life lamp option, providing an average lamp life of 48,000 hours\*
- Excellent colour rendition
- Low maintenance costs
- Lamps available to suit specialist applications
- Flicker free lighting with no stroboscopic effect
- Some versions qualify for Enhanced Capital Allowances

\* Based on BS standard switch cycles of 8 switches a day. Fewer switchings will give longer lamp life



## Chalmer

Experts in Energy Saving  
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## SAFETY AND PERFORMANCE

As you would expect from a company with over 25 years experience in the lighting and controls market, Variance offers the following benefits:

- Dedicated ECG types for HO (High Output) lamps
- 50,000 hours lifetime\*
- Preheat start within 1 second
- Constant light output for  $U_N = 198\text{ V to }264\text{ V}$
- Reliable lamp ignition at  $t_a = -20\text{ °C to }+50\text{ °C}$
- Cut-Off technology
- Energy Efficiency Index = A2
- Automatic safety shut down at end of lamp life or in case of failure acc. to EoL T.2
- Automatic ignition after lamp replacement

\* for  $t = 75\text{ °C}$  at  $t_c$ : max. failure rate of 10 %

## TECHNICAL SPECIFICATION


Supply voltage..... 220 to 240V

Line frequency..... 50 to 60Hz

Lamp start within 1s with optimum filament preheating

If there is a temporary interruption in the power supply (<0.5s) the lamp will start within 0.3s

Energy Efficiency Index..... EEI = A2

Approval marks: 

Safety acc..... to EN 61347-2-3

Lamp operation acc. .... to EN60929

RI suppression: ..... acc. to EN55015

Line harmonics:..... acc. to EN 61000-3-2

Immunity acc..... to EN 61547

Dimensions (LxWxD):

4 x 54 w version..... 1300\*x335x100mm

3 x 80 w version..... 1600\*x335x100mm

Weight 4 x 54w version..... 7.9 kg

Weight 3 x 80w version ..... 9.7 kg

IP Rating: ..... IP20

\*Including integrated sensor

Specifications may change without prior notice

## CERTIFICATION

March 2010 will see the first stage of new Commission of the European Communities regulations with regards to ecodesign requirements (2005/32/EC) for fluorescent lamps, and for ballasts and luminaires able to operate such lamps, and repealing Directive 2000/55/EC.

By using the latest control gear and lamps, Variance not only complies with future European legislation, but also conforms to EN 60598-1 and relevant Parts 2. Tri-phosphor and amalgam fluorescent lamps comply with EN61195 (safety) and EN60081 (performance) and with nominal initial (100h) lumen values included in this criteria.

## ORDER CODES

### Variance Fittings

VAR/4/54/OPEN 4x54W Open Variance

VAR/3/80/OPEN\* 3x80W Open Variance

\* qualify for Enhanced Capital Allowances, see [www.eca.gov.uk](http://www.eca.gov.uk)



Authorised User No. 00046

### Variance Accessories

VAR/GUARD/1200 1200mm Wire guard

VAR/GUARD/1500 1500mm Wire guard

VAR/POLY/1200 1200mm Polycarbonate cover

VAR/POLY/1500 1500mm Polycarbonate cover

### Example Variance Lamp Options

LAMP/T5/54W/840/4' T5 lamp, 54watt, 4', box of 40, incl. WEEE levy

LAMP/T5/54W/840/4'/CO T5 lamp, 54watt, 4' Constant Output, box of 20, incl. WEEE levy

LAMP/T5/54W/840/4'/LL T5 lamp, 54watt, 4' Long life, box of 25

LAMP/T5/54W/840/4'/SP T5 lamp, 54watt, 4' Shatterproof, box of 40, incl. WEEE levy

LAMP/T5/80W/840/5' T5 lamp, 80watt, 5', box of 40, incl. WEEE levy

LAMP/T5/80W/840/5'/CO T5 lamp, 80watt, 5' Constant Output, box of 20, incl. WEEE levy

LAMP/T5/80W/840/5'/LL T5 lamp, 80watt, 5' Long life, box of 25

LAMP/T5/80W/840/5'/SP T5 lamp, 80watt, 5' Shatterproof, box of 40, incl. WEEE levy

Variance is available in a number of other lamp wattage combinations. For further information please call our office on 01582 748700.

