

Line Pattern Flat Light LFX3-100BL-PT-A

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-

1

+

£2,400⁰⁰

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Product Downloads

General	
LFX3-100BL-PT-A	Model Number:
LED Illuminator	Type of Illumination:
CCS	Manufacturer:
Flat Light	Geometry:

Constant

W 143 mm x D 143 mm x H 13.1 mm

Dimensions (mm):

400

Weight (g):

Blue

Color:

Wavelength (nm):

469

13

Power Consumption (W):

24

Input Voltage (V):

Power Supply Required and Sold Separately.

USA: **#73-491**

Europe: #73-491

Japan: #89-513

Korea: #33-773

China: **#73-491**

Exempt

RoHS 2015:

Contains SVHC(s)

Reach 224:

View

Certificate of Conformance:

- Detect Imperfections on Reflective Surfaces
- Line Pattern Projected Through Light Guiding Diffusion Plate
- Multiple Wavelengths and Working Distances Available

CCS Coaxial Line Pattern Flat Lights feature a line pattern on the surface of a light guiding diffusion plate which allows for the detection of minute bumps and dents on reflective surfaces. When integrated into a machine vision system, the image of the reflected line pattern highlights defects by breaking the continuity of the surface and distorting the line pattern. These flat lights are available with two pitch options, 1mm for shorter working distances and 2mm for longer working distances. CCS Coaxial Line Pattern Flat Lights are ideal for inspection of reflective surfaces such as mirrors, metal sheets, glass surfaces, and reflective films.

Two types of line patterns available

Select one to match your inspection conditions.

Imaging examples

1 mm type
LFX3-PT-A Series

Narrow pitch

Distance: 30 mm

The distance from the Light Unit to the workpiece is short.

2 mm type
LFX3-PT-B Series

Wide pitch

Distance: 150 mm

The distance from the Light Unit to the workpiece is long.

Example configuration (LFX3-100-PT)

Camera

Light-guiding diffusion plate

LED

Workpiece

Imaging example: Imaging the external appearance of metal plate

LED Coaxial Light

Workpiece: Metal plate

LFX3 Line Pattern Light

Coaxial Lights illuminate the whole surface evenly, making it difficult to detect the bumps.

Line Pattern Lights highlight the bumps as curved lines.