

CAD Drawing

Industrial Area Sensor & Safety Light Curtain

DPR-2440-NPN-NC

Mechanical dimensions, mounting layout and installation reference for the 24-beam DPR-2440-NPN-NC Industrial Area Sensor and Safety Light Curtain with 40 mm optical axis pitch and 920 mm protection height.

SIL 2 / IEC 61508

IP65

CE / FCC / ROHS

NPN NC

DOCUMENT TYPE

CAD Drawing

PRODUCT MODEL

DPR-2440-NPN-NC

REVISION

Rev. 1.0

DOCUMENT NO.

DPR-2440-CAD-01

SKU

SD74

MANUFACTURER

DAPpra Automation

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This CAD drawing provides the mechanical dimensions and installation layout for the DAPpra DPR-2440-NPN-NC. All dimensions are in millimeters unless otherwise specified. Verify all dimensions against the actual product before final mounting.

1. General Information

The DAPpra DPR-2440-NPN-NC is a 24-beam Industrial Area Sensor and Safety Light Curtain with a 40 mm optical axis pitch and a 920 mm protection height. This CAD drawing provides the mechanical dimensions and installation layout reference.

2. Key Mechanical Dimensions

PARAMETER	VALUE
Model	DPR-2440-NPN-NC
SKU	SD74
Beam Quantity	24 Beams
Optical Axis Pitch	40 mm
Protection Height	920 mm
Total Height	1006 mm
Housing Cross Section	29 × 30 mm
Housing Material	Industrial aluminum profile
Protection Rating	IP65
Operating Temperature	-10°C to +55°C

The **920 mm** dimension represents the active protection/detection height, while **1006 mm** represents the complete sensor height including the housing ends.

3. Sensor Housing Cross Section

DIMENSION	VALUE
Housing Width	29 mm
Housing Depth	30 mm
Cross Section	29 × 30 mm
Mounting Type	Side bracket mounting
Connection	M12 industrial connector

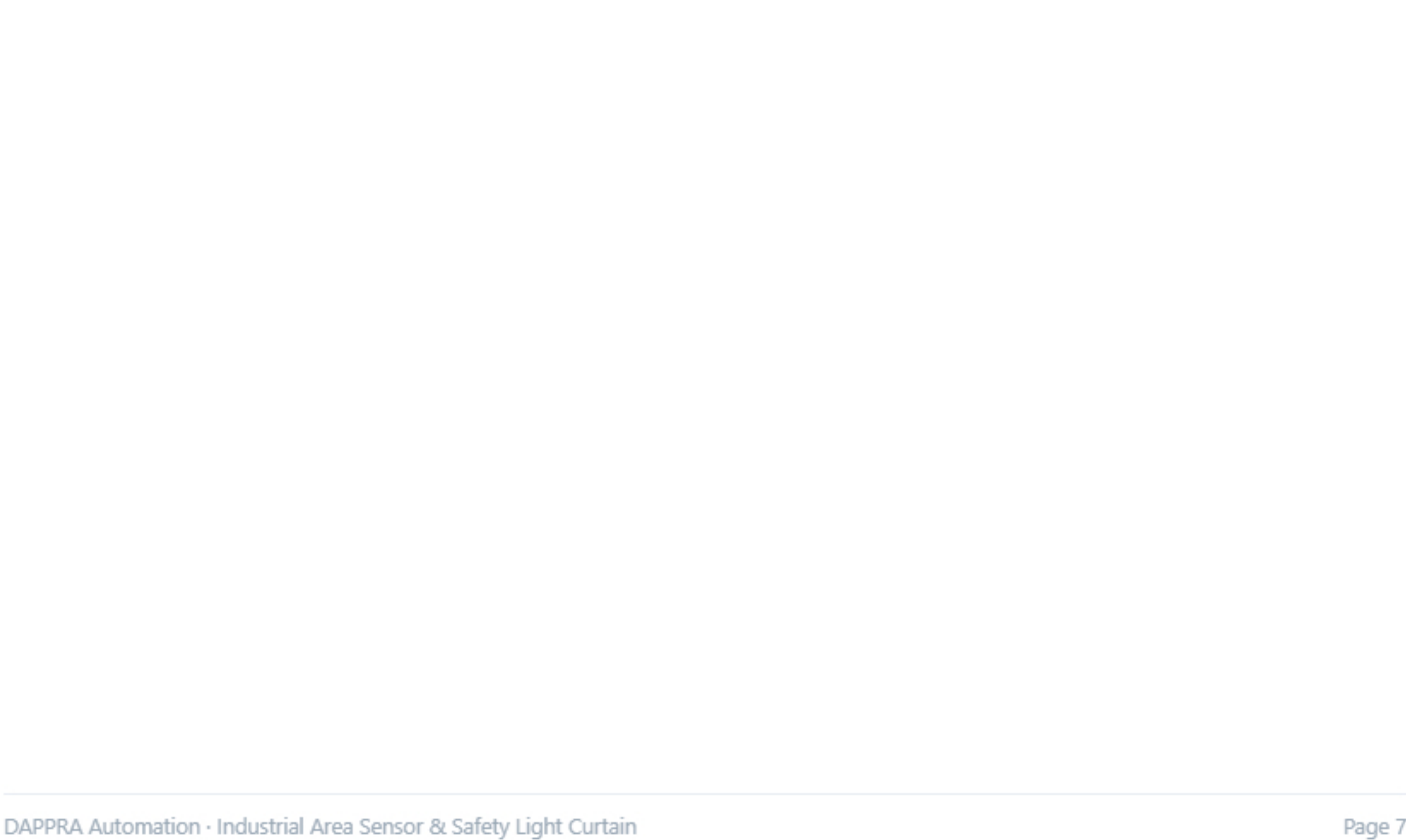
4. Beam Layout Reference

The DPR-2440-NPN-NC has 24 optical beams evenly distributed at a 40 mm optical axis pitch across a 920 mm protection height.

ITEM	VALUE
Number of Beams	24
Optical Axis Pitch	40 mm
Protection Height	920 mm
Total Height	1006 mm
First Beam to Last Beam	(24 – 1) × 40 mm = 920 mm

Beam layout reference: the first beam is located near the top of the protection area, and the last beam is located near the bottom. The total beam span is 920 mm.

5. Mechanical Drawing



6. Mounting Layout

The DPR-2440-NPN-NC can be installed using the available DAPpra mounting configurations. The transmitter and receiver should be mounted opposite each other, with the optical beams aligned across the full protection height.

7. Installation Reference

For reliable multi-beam detection, the transmitter and receiver should be aligned across the complete 920 mm sensing height. The installation reference should be followed for mounting position, alignment and sensor spacing.

8. Mounting Hole Reference

ITEM	REFERENCE
Mounting Type	Side bracket mounting
Bracket Type	DAPpra standard adjustable bracket
Housing Cross Section	29 × 30 mm
Mounting Position	Top and bottom of the housing
Alignment	Transmitter and receiver facing each other
Protection Height	920 mm
Total Height	1006 mm

Note: Always verify the mounting hole positions against the actual product before drilling or machining. For custom mounting layouts, contact DAPpra Automation for technical support.

9. Technical Support

For technical assistance, product information or purchasing support, contact DAPpra Automation.

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