DAPPRA AUTOMATION

CAD Drawing

Industrial Area Sensor & Safety Light Curtain

DPR-0640-NPN-NC

Mechanical dimensions, mounting layout and installation reference for the 6-beam DPR-0640-NPN-NC Industrial Area Sensor and Safety Light Curtain with 40 mm optical axis pitch and 200 mm protection height.

IEC 2 / IEC 61508 | IP65 | CE / FCC / ROHS | NPN NC

DOCUMENT TYPE CAD Drawing	PHOTOBEAM PAIR DPR-0640-CAD-01
PRODUCT MODEL DPR-0640-NPN-NC	SKU SD73
REVISION Rev 1.0	MANUFACTURER DAPPRA Automation

Table of Contents

1. General Information 3
2. Key Mechanical Dimensions 3
3. Sensor Housing Cross Section 4
4. Beam Layout Reference 4
5. Mechanical Drawing 5
6. Mounting Layout 5
7. Installation Reference 6
8. Mounting Hole Reference 6
9. Technical Support 7

This CAD drawing provides the mechanical dimensions and installation layout for the DAPPRA DPR-0640-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-0640-NPN-NC is a 6-beam Industrial Area Sensor and Safety Light Curtain with a 40 mm optical axis pitch and a 200 mm protection height. This CAD drawing provides the mechanical dimensions and installation layout reference.

2. Key Mechanical Dimensions

PARAMETER	VALUE
Model	DPR-0640-NPN-NC
SKU	SD73
Beam Quantity	6 Beams
Optical Axis Pitch	40 mm
Protection Height	200 mm
Total Height	266 mm
Housing Cross Section	29 × 30 mm
Housing Material	Industrial aluminum profile
Protection Rating	IP65
Operating Temperature	-10°C to +55°C

The **200 mm** dimension represents the active protection/detection height, while **266 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-0640-NPN-NC has 6 optical beams evenly distributed at a 40 mm optical axis pitch across a 200 mm protection height.

ITEM	VALUE
Number of Beams	6
Optical Axis Pitch	40 mm
Protection Height	200 mm
Total Height	266 mm
First Beam to Last Beam	(6 − 1) × 40 mm = 200 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 200 mm.

5. Mechanical Drawing

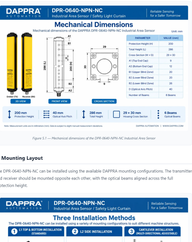

Figure 5.1 — Mechanical dimensions of the DPR-0640-NPN-NC Industrial Area Sensor

6. Mounting Layout

The DPR-0640-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.

Figure 6.1 — Mounting layout for the DPR-0640-NPN-NC Area Sensor

7. Installation Reference

For reliable multi-beam detection, the transmitter and receiver should be aligned across the complete 200 mm sensing height. The installation reference should be followed for mounting position, alignment and sensor spacing.

Figure 7.1 — Installation reference for the DPR-0640-NPN-NC Industrial Area Sensor

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	200 mm
Total Height	266 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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