

DPR-2020-NPN-NC

Safety Light Curtain Area Sensor — Mechanical Dimension Drawing

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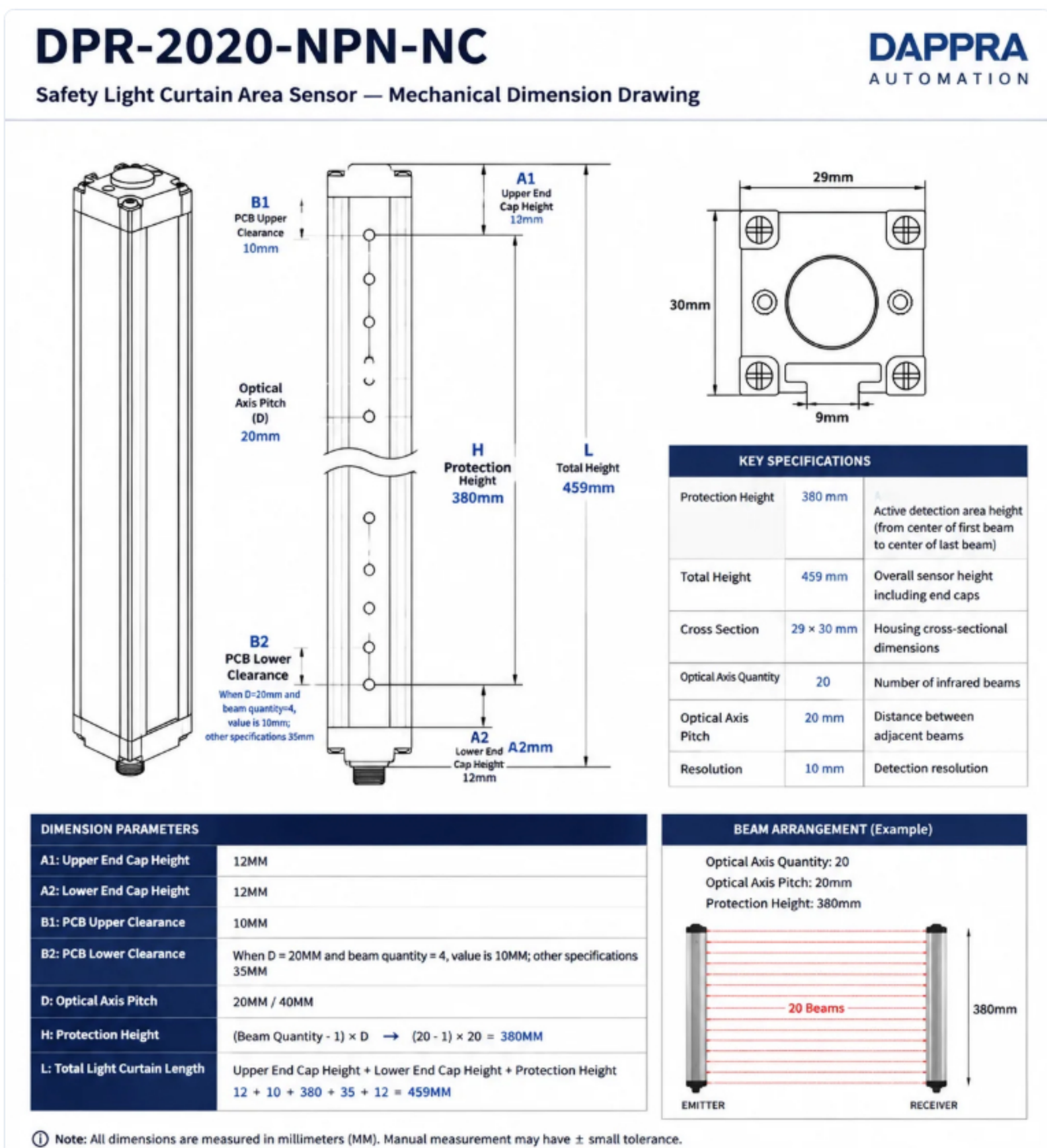


Figure 1 — DPR-2020-NPN-NC Main Dimension Drawing

Dimension Table

Dimension Parameter	Value (mm)	Description
Protection Height	380	Active detection area height (from center of first beam to center of last beam)
Total Height	459	Overall sensor height including end caps
Cross Section	29 × 30	Housing cross-sectional dimensions
Optical Axis Quantity	20	Number of infrared beams
Optical Axis Pitch	20	Distance between adjacent beams
Resolution	10	Detection resolution

Note: All dimensions are in millimeters (mm). Tolerance: ± 0.5 mm unless otherwise specified. Drawing is for reference only. For detailed installation information, refer to the DPR-2020-NPN-NC Installation Guide.

Cross-Section Detail

The sensor housing features a compact 29 × 30 mm cross-section, designed for easy integration into industrial equipment.

Cross-Section Parameter	Value (mm)
Width	29
Depth	30
Mounting Slot Width	5.5
Mounting Slot Pitch	20

Optical Structure Reference

- **Protection Height:** 380 mm — $(\text{Beam Quantity} - 1) \times \text{Optical Axis Pitch} = (20 - 1) \times 20 \text{ mm}$
- **Total Height:** 459 mm — Protection Height + End Cap Dimensions
- **Beam Count:** 20 optical beams
- **Optical Axis Pitch:** 20 mm
- **Resolution:** 10 mm
- **Detection Distance:** 0.1–3 m

Beam Spacing Example

The optical axis pitch of 20 mm represents the distance between the centers of adjacent infrared beams.

Beam Position	Distance from Top (mm)
Beam 1 (Top)	0
Beam 2	20
Beam 3	40
...	...
Beam 20 (Bottom)	380

Drawing Information: This CAD drawing is intended for mechanical integration and installation design. For detailed electrical specifications, refer to the DPR-2020-NPN-NC Datasheet. For installation guidance, refer to the DPR-2020-NPN-NC Installation Guide.