

SMARTSCAN INFORMATION



N SERIES

NON SAFETY LIGHT CURTAINS HANDBOOK

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| CONTENTS | Page |
|--------------------------|-------------|
| INTRODUCTION | 5 |
| FEATURES | 6 |
| SPECIFICATION | 7 |
| LIGHT CURTAIN MODEL LIST | 8 |
| CONNECTION INFORMATION | 9 |
| INSTALLATION SHEET | 10 |



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INTRODUCTION

N SERIES light curtains provide a cost effective solution for a variety of Industrial and Commercial sensing applications

- Suitable for a variety of process control and (non-safety) machine protection applications
 - Simple installation and alignment
 - Large selection of models
 - 1 year manufacturer's warranty

Industrial and Commercial applications include:

Parts Detection
Picking Systems
Profile Checking
Machine Protection
Presence Sensing
Garment Counting (laundries)
Product Counting
Airport Baggage Counting
Lifts and Automatic Shutter Doors
Loading Bays
People Monitoring
Security Systems
Loop Detection

FEATURES

- Slimline Enclosure
- Up to 10 metres scanning range
- No range settings required
- Diagnostic and status indicators
- Two part system
- Dual electronic outputs
- 24V DC operation
- M12 connectors
- PNP / NPN output
- 1 year warranty
- IP 65 protection rating

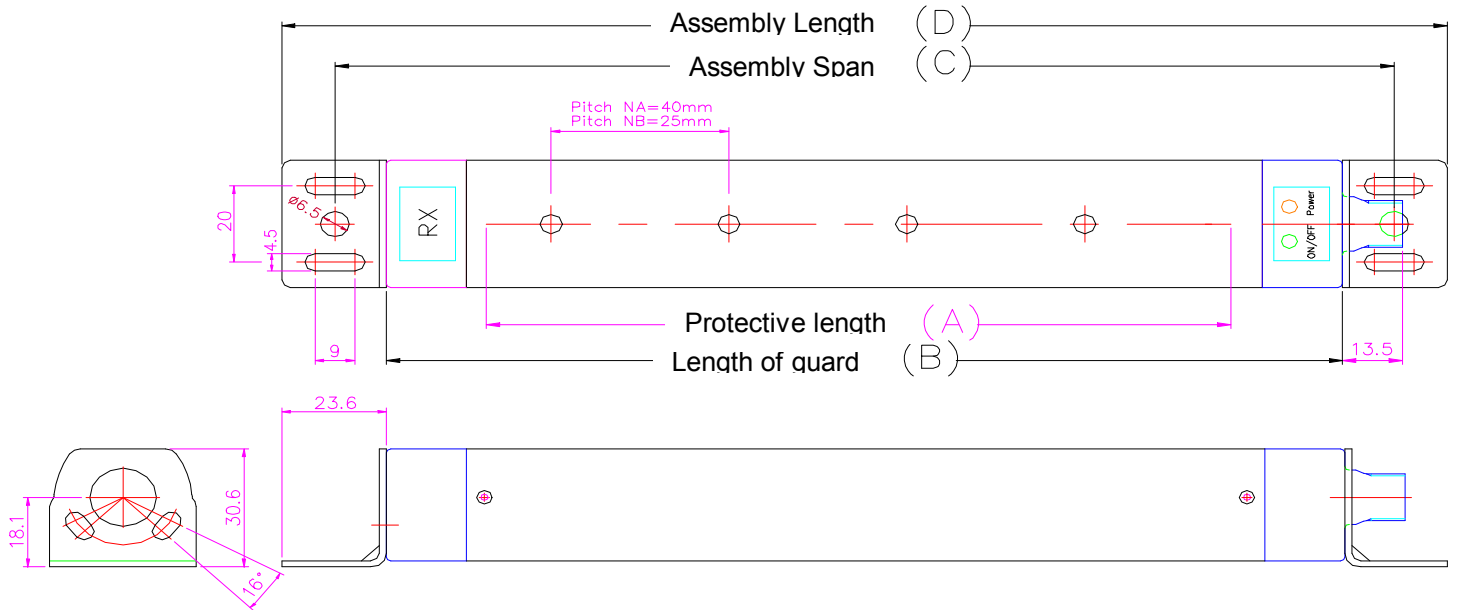
SPECIFICATION

N SERIES Light Curtains

| | |
|---------------------------|--|
| Number of Beams | 4 - 64 |
| Object Detection | 30 mm |
| Detection Zone | 137 mm - 1637 mm |
| Range | 1.0 - 7.0 metres |
| Light Type | IR 880 nm |
| Response Time | 20 ms |
| Operating Temperature | 0°C to 50°C |
| Light Curtain Enclosure | IP65 (H x W x D) H x 33 x 29 |
| Status Indicators | Tx - Yellow = 'Power On' Rx - Yellow = 'Power On' Rx - Red = 'Blocked' Rx - Green = 'Clear' |
| Power Supply Requirements | 22 - 28V DC ripple <10% (Diode Protected) |
| Current Consumption | 50mA per 8 beams |
| Light Curtain Connectors | M12 4 core |
| Finish | Silver Anodised aluminium extrusion |
| Classification | CE Mark |
| Warranty | 1 Year |
| Outputs | 2 x Electronic (1 x PNP) and (1 x NPN) 200mA |

LIGHT CURTAIN MODEL LIST

N Series Light Curtains



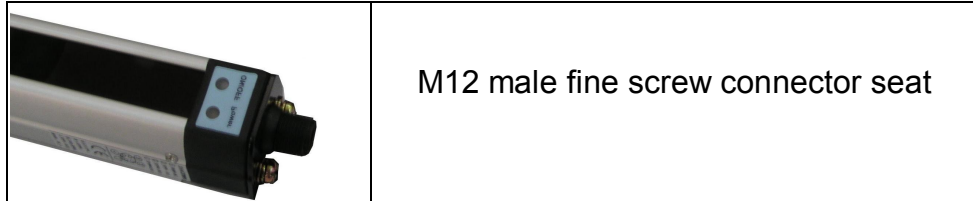
| | | (NB series) ODC 30mm | | Range 0.5m to 2.5m (L) type 1m to 7m | |
|-----------|------------|------------------------------|----------------------------|---|----------------------------|
| Model No. | No of Beam | Protective Length(A) (mm) | Length of guard(B) (mm) | Assembly span(C) (mm) | Assembly length(D) (mm) |
| NB-4(L) | 4 | 137 | 165 | 178 | 212 |
| NB-8(L) | 8 | 237 | 265 | 278 | 312 |
| NB-12(L) | 12 | 337 | 365 | 378 | 412 |
| NB-16(L) | 16 | 437 | 465 | 478 | 512 |
| NB-20(L) | 20 | 537 | 565 | 578 | 612 |
| NB-24(L) | 24 | 637 | 665 | 678 | 712 |
| NB-32(L) | 32 | 837 | 865 | 878 | 912 |
| NB-40(L) | 40 | 1037 | 1065 | 1078 | 1112 |
| NB-48(L) | 48 | 1237 | 1265 | 1278 | 1312 |
| NB-56(L) | 56 | 1437 | 1465 | 1478 | 1512 |
| NB-64(L) | 64 | 1637 | 1665 | 1678 | 1712 |

Note: The N Series is not a safety light curtain and is not for use as a safety product as defined by the Machinery Directive.

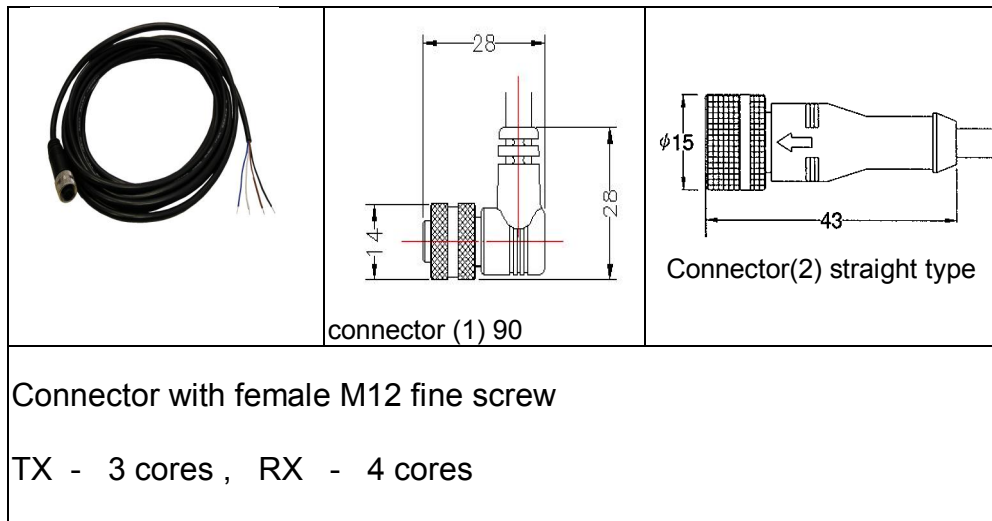
CONNECTION INFORMATION

N Series

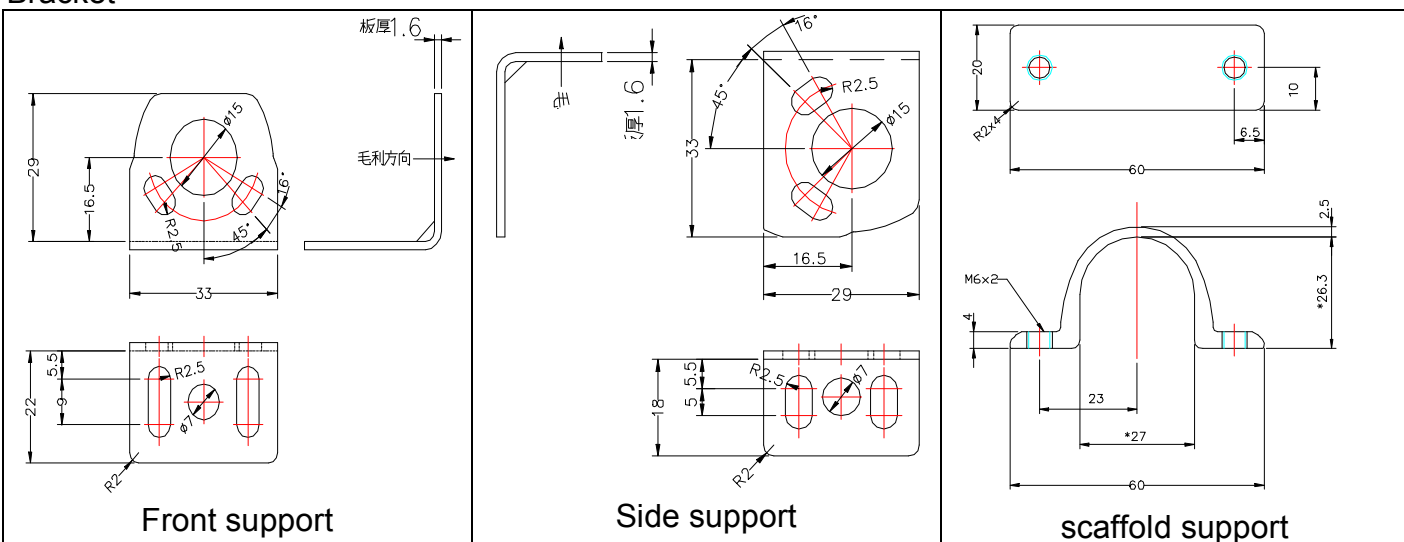
Connector and wiring



Cable



Bracket



INSTALLATION SHEET

CD330/130608

INSTALLATION

Non safety Light Curtain NB - PNP



(A)

ACCESSORIES

- Bracket 090-001 Cable 3M 090-002
- Cable 10M 090-003
- Cable 10M 090-004

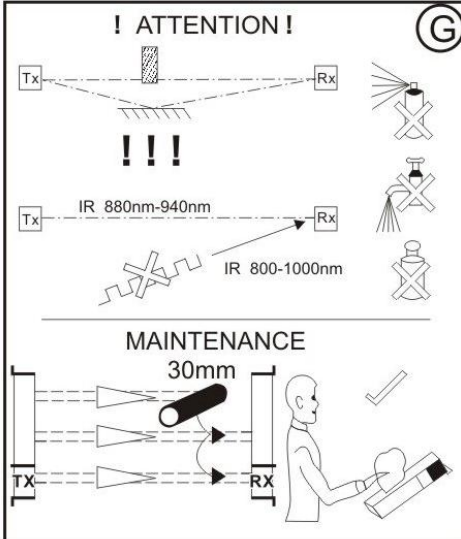
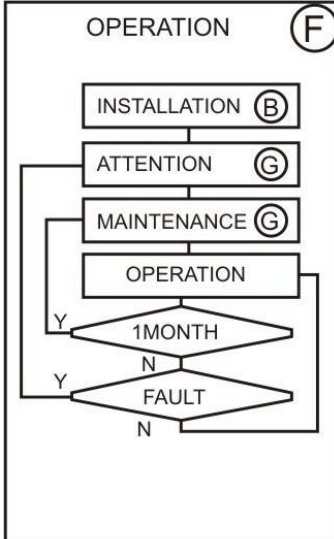
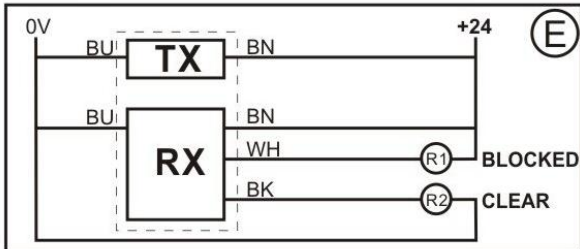
(B)

This device may not be suitable for use in safety related applications

| SPECIFICATION | |
|--------------------------|---|
| Number of beams | 4-64 |
| Object detection | 30mm |
| Detection zone | 137mm - 1637mm |
| Range | 0.5-2.5m (LP type , 1-7m) |
| Light type | Infra-Red 880nm |
| Response time | 20ms |
| Operating temperature | 0°C to +50°C |
| Light curtain enclosure | IP65 (HxWxD) Hx33x29 |
| Status indicators TX | yellow=power |
| Status indicators RX | red=blocked green=clear yellow=power |
| Power supply requirement | 22-28V DC ripple<10% Diode protected |
| Current consumption | 50mA per 8 beams |
| Light curtain connection | M12 4 core |
| Finish | Anodised aluminium |
| Classification | CE mark |
| Warranty | 1 years |
| Outputs | Electronic NPN/PNP 200 mA |

(D) Model List

| Model Number | Number of Beams | Detection zone mm | Object detection | Length mm |
|--------------|-----------------|-------------------|------------------|-----------|
| NB-4(LP) | 4 | 137 | 30 | 165 |
| NB-8(LP) | 8 | 237 | 30 | 265 |
| NB-12(LP) | 12 | 337 | 30 | 365 |
| NB-16(LP) | 16 | 437 | 30 | 465 |
| NB-20(LP) | 20 | 537 | 30 | 565 |
| NB-24(LP) | 24 | 637 | 30 | 665 |
| NB-32(LP) | 32 | 837 | 30 | 865 |
| NB-40(LP) | 40 | 1037 | 30 | 1065 |



(H) REPAIR DISPOSAL

REPAIR:

DISPOSAL:

SUPPLIER: _____

USE:

SUPPLIER: