

# SMARTSCAN INFORMATION



## N SERIES

### NON SAFETY LIGHT CURTAINS HANDBOOK

Smartsan Ltd, Pywell Road, CORBY, NN17 5XJ, UK, Tel: +44 (0) 1536 401313,  
Fax: +44 (0) 1536 268954, Email: [sales@smartsan.com](mailto:sales@smartsan.com), [www.smartsan.com](http://www.smartsan.com)



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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

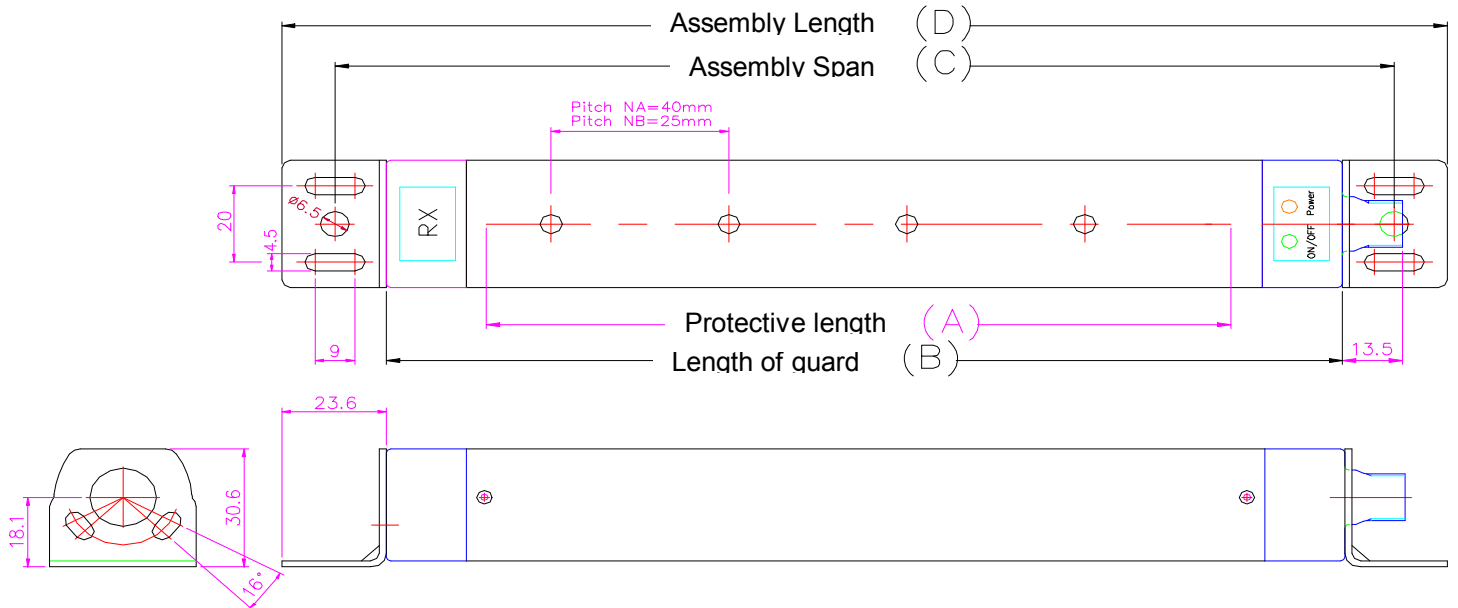
## SPECIFICATION

### 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



				Range 0.5m to 2.5m (L) type 1m to 7m	
(NB series) ODC 30mm					
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

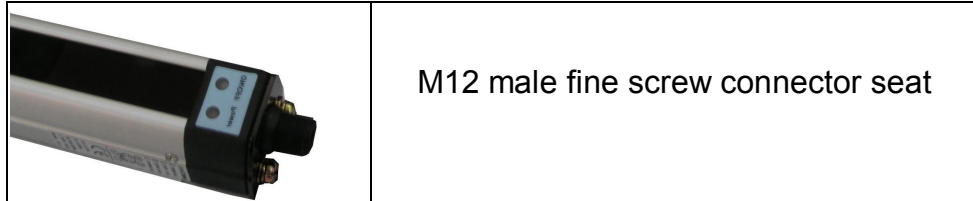
Note: The N Series is not a safety light curtain and is not for use as a safety product as defined by the Machinery Directive.



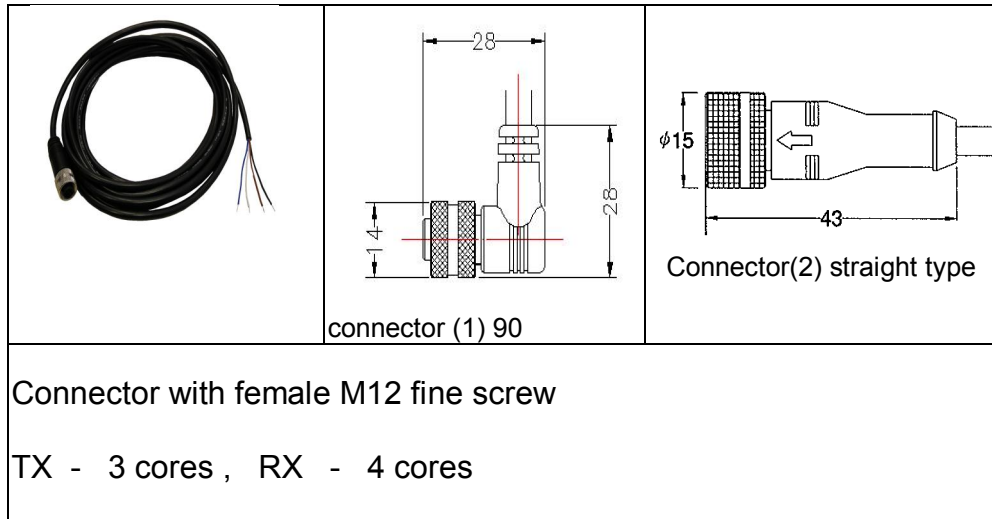
# CONNECTION INFORMATION

## N Series

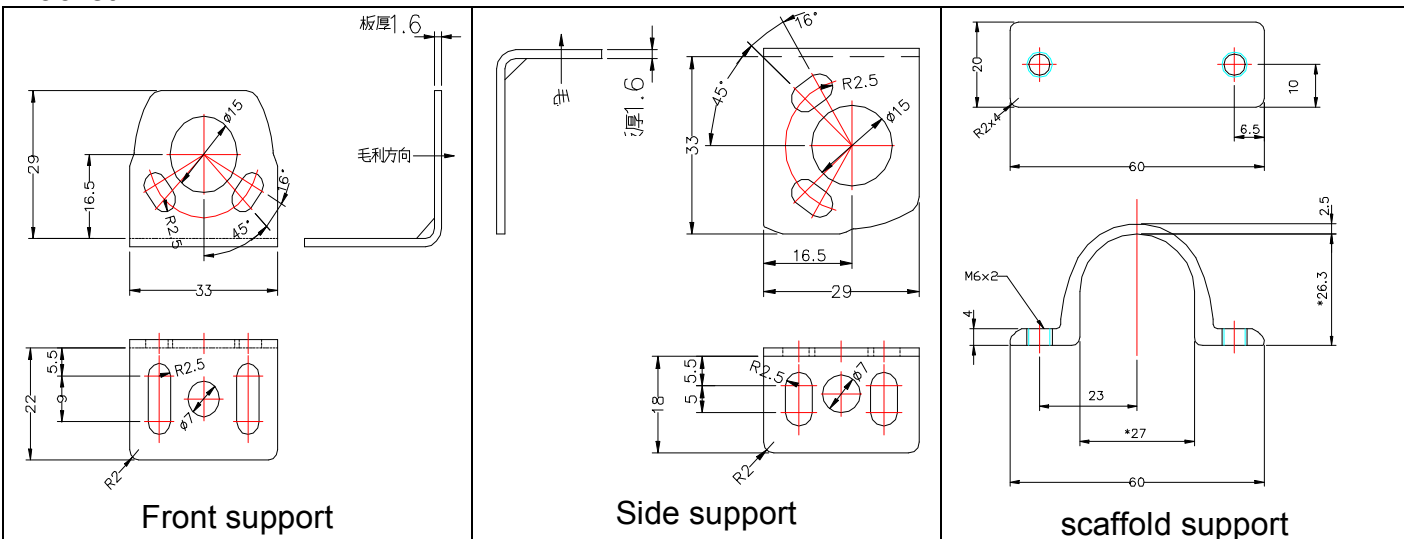
### Connector and wiring



### 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

**(C)**

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

