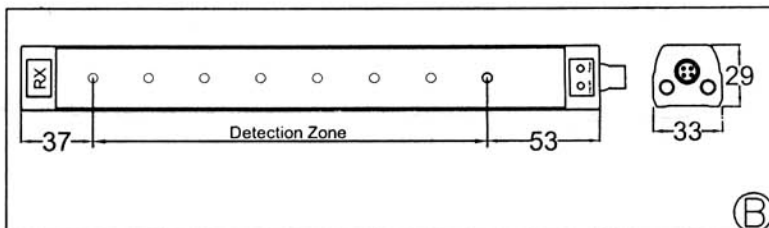
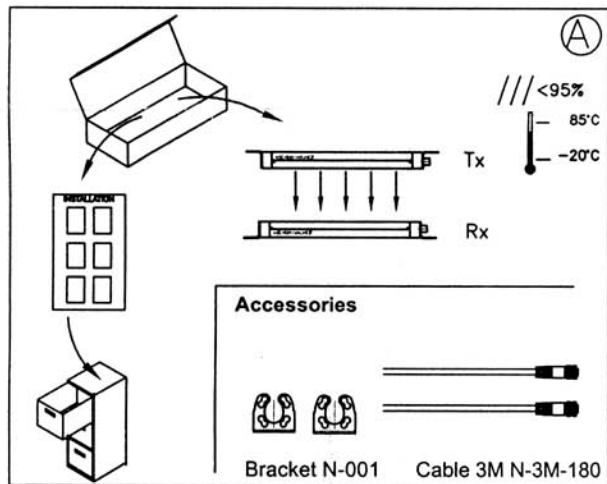


INSTALLATION

Thank you very much for using SMARTSCAN products. Please read this Instruction Manual carefully and thoroughly for the correct and optimum use of this product. Kindly keep this manual in a convenient place for quick reference.

CAUTIONS

- Make sure that the power supply is off while wiring.
- Take care that wrong wiring may damage the sensor.
- Verify that the supply voltage variation is within the rating.
- If power is supplied from a commercial switching regulator, ensure that the frame ground (F.G.) terminal of the power supply is connected to an actual ground.
- In case noise generating equipment (switching regulator, inverter motor, etc.) is used in the vicinity of this product, connect the frame ground (F.G.) terminal of the equipment to an actual ground.
- Do not run the wires together with high-voltage lines or power lines or put them in the same raceway. This can cause malfunction due to induction.
- Do not use during the initial transient time (500ms) after the power supply is switched on.
- Avoid dust, dirt, and steam.
- Take care that the sensor does not come in direct contact with water, oil, grease, or organic solvents, such as, thinner, etc.
- Do not use in an environment containing inflammable or explosive gas.
- Make sure to use an isolation transformer for the DC power supply. If an auto-transformer (single winding transformer) is used, this product or the power supply may get damaged.
- In case a surge is generated in the used power supply, connect a surge absorber to the supply and absorb the surge.
- Take care that the sensor is not directly exposed to fluorescent light from a rapid-starter lamp or a high frequency lighting device, as it may affect the sensing performance.
- The emitter and the receiver must face each other with their cable ends on the same side. If they are set upside down, the sensor will not work correctly.
- This sensor is suitable for indoor use only.

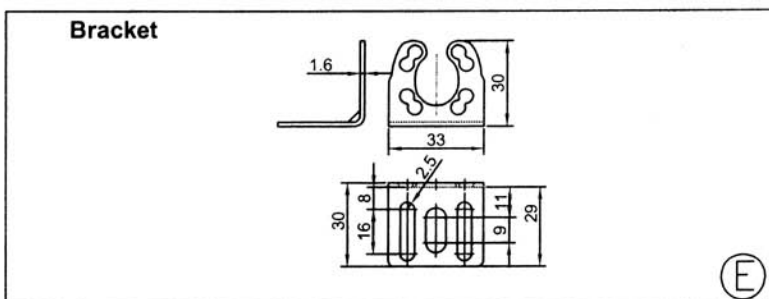


SPECIFICATION

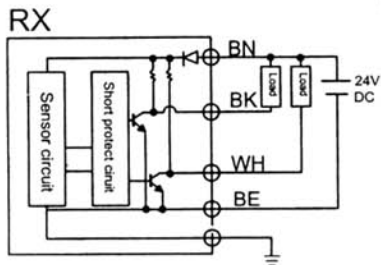
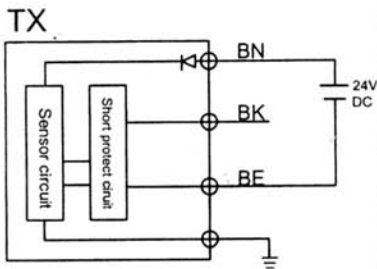
Number of beams	4-64
Object detection	26mm
Detection zone	75-1575mm
Range	0.5m-2.5m (L type 1m-7m)
Response time	20ms
Operating temperature	-20°C to +85°C
Light curtain enclosure	IP65
Status indicators TX	Yellow=Power
Status indicators RX	Red=Blocked Green=Clear
Power supply requirement	22-28VDC Ripple<10% Diode Protected
Current consumption	40mA per 8 beams
Light curtain connection	M12 4 core (TX) or 5 core (RX)
Classification	CE mark for LVD
Warranty	1 year
Outputs (NPN or PNP optional)	Electronic NPN 200mA

Model List

Model Number	Number of Beams	Detection Zone (mm)	Object Detection	Length (mm)
PNB-25-04 (P)	4	75	26	165
PNB-25-08 (P)	8	175	26	265
PNB-25-12 (P)	12	275	26	365
PNB-25-16 (P)	16	375	26	465
PNB-25-08 (P)	20	475	26	565
PNB-25-24(P)	24	575	26	665
PNB-25-32 (P)	32	775	26	865
PNB-25-40 (P)	40	975	26	1065
PNB-25-48 (P)	48	1175	26	1265
PNB-25-56 (P)	56	1375	26	1465
PNB-25-64 (P)	64	1575	26	1665

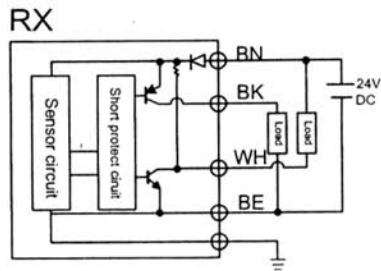
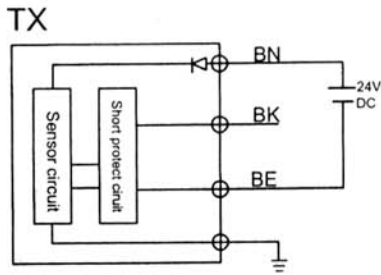


NPN output



(F)

PNP output



(G)

EC DECLARATION OF CONFORMITY Smartscan N Series

Smartscan Ltd. Pywell Rd. Corby, Northants. NN17 5XJ

Has had a N series of Light Curtain examined with regards to the Directive 2006/95/EC and BS EN 60204-1.

Having verified that the appropriate tests have been conducted.

The standards and transposed standards have been applied correctly.

The example representing series production of the item, complies with the essential health and safety requirements of the Directive 2006/95/EC.

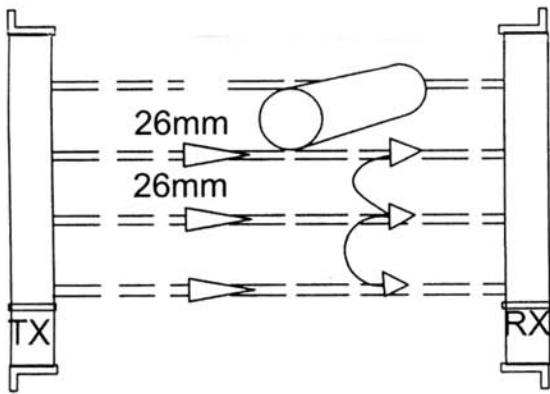
Signature:

Date: 14/07/2007

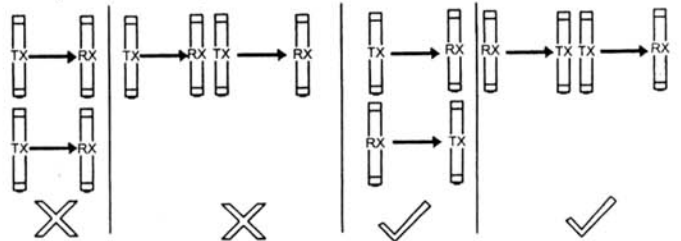
Title: project manager

(H)

MAINTENANCE

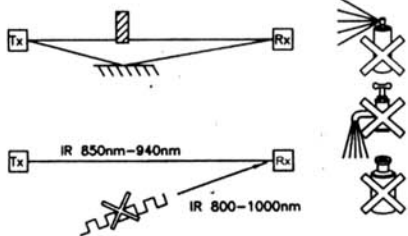


1. Place the emitter and the receiver face to face along a straight line.
2. After the cables have been correctly connected, switch the power ON.
3. Move the emitter in the up, down, left and right directions, in order to determine the range of the beam received condition with the help of the operation indicator on the received. Then, set the emitter at the center of this range.
4. Similarly, adjust for up, down, left and right angular movement of the emitter.
5. Further perform the angular adjustment for the receiver also.
6. Check that the stable incident beam indicator (green) lights up.
7. Interrupt each beam channel with the actual sensing object, and confirm that the sensor operates correctly.



(I)

! ATTENTION !

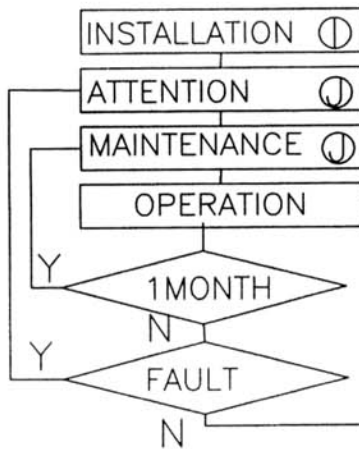


MAINTENANCE

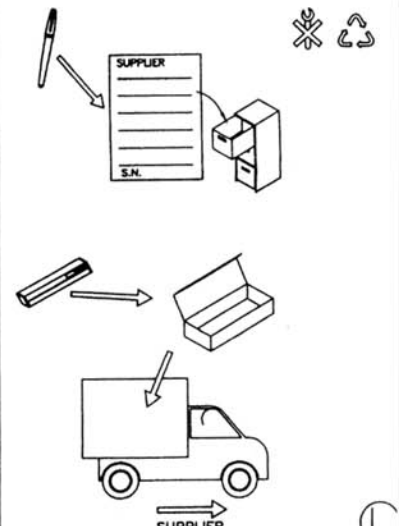


(J)

OPERATION



(K)



(L)