



SAFETY LIGHT CURTAIN TYPE 2



Orbital Mekatronik Systems Pvt. Ltd.

AN ISO 9001:2015 CERTIFIED COMPANY

Technical Specifications

Power Supply (VDD)	24VDC + 15%
Emitter Elements	Infrared LED's, 880nm
Resolution	30mm/48mm
Ambient Light Immunity	1500 Lux at 5 deg angle of incidence
Response Time	20 miliseconds or less from interruption of light beam to safety outputs going to OFF-state.
Emitter/receiver Operating Range	Short-range models :- 0.8m to 8m Long-range models:- upto 20m
Safety Rating	Type 2 per IEC 61496-1, -2; Category 2
Screen Height	Refer Chart 1/2
Safety Outputs	Two PNP outputs (with short circuit protection), sourcing OSSD safety outputs. ON-Stage voltage : $\geq V_{in} - 1.5V$ dc OFF-Stage voltage : 1.2V dc
Maximum Output Current	100 mA for each output
Maximum Load Capacitance	100nF
Minimum Load Resistance	240 Ohm
Effective Aperture Angle (EAA)	Meets Type 2 requirments per IEC 61496-2: ± 5 deg @ 3m
Mechanical Protection	IEC IP 67
Reference Standard	IEC 61496-1, -2
Enclosure	Material: Extruded alminum housing with golden yellow powder
Lens Material	Poly Methyl Methacrylate (PMMA)
Cables and Connections	Cables 3 mtr standard and extra on request. 3 core and 5 core wires are of 26 EWG. The outer diameter of wires is 6mm 3 pole and 5 pole connectors are of M12.
Operating Condition	Temperature: 0 to 55 deg cel. Relative Humidity: 95% (non- condensing)
Maximm Length Of Connecting Cables	50 mtrs
Shock and Vibration	Type 2 SLC have passed vibration and shock tests according to IEC 61496-1 and -2. This includes vibration of 50 Hz at 0.35 mm single amplitude for 10ms.

Safety Light Curtain - 18.375 mm Pitch : TYPE 2

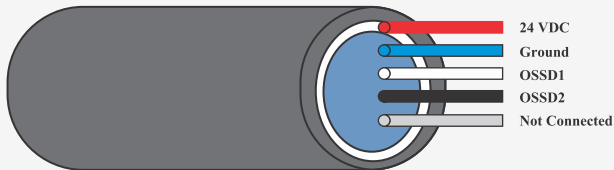
Screen Height (mm)	No. of Channels	Pitch (mm)	Total Height (mm)	Model No.
147	8	18.375	180	NCE-3-B-1-C-4-C
221	12	18.375	254	NCE-3-C-1-C-4-C
294	16	18.375	327	NCE-3-D-1-C-4-C
368	20	18.375	401	NCE-3-I-1-C-4-C
441	24	18.375	474	NCE-3-E-1-C-4-C
588	32	18.375	621	NCE-3-F-1-C-4-C
662	36	18.375	695	NCE-3-H-1-C-4-C
882	48	18.375	915	NCE-3-G-1-C-4-C
1029	56	18.375	1062	NCE-3-J-1-C-4-C
1103	60	18.375	1136	NCE-3-K-1-C-4-C
1323	72	18.375	1356	NCE-3-L-1-C-4-C
1544	84	18.375	1577	NCE-3-M-1-C-4-C
1764	96	18.375	1797	NCE-3-N-1-C-4-C

Safety Light Curtain - 36.75 mm Pitch : TYPE 2

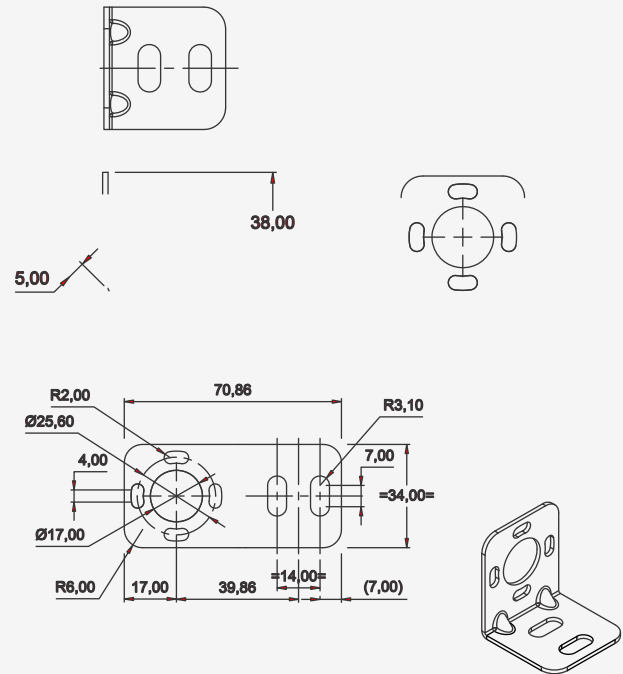
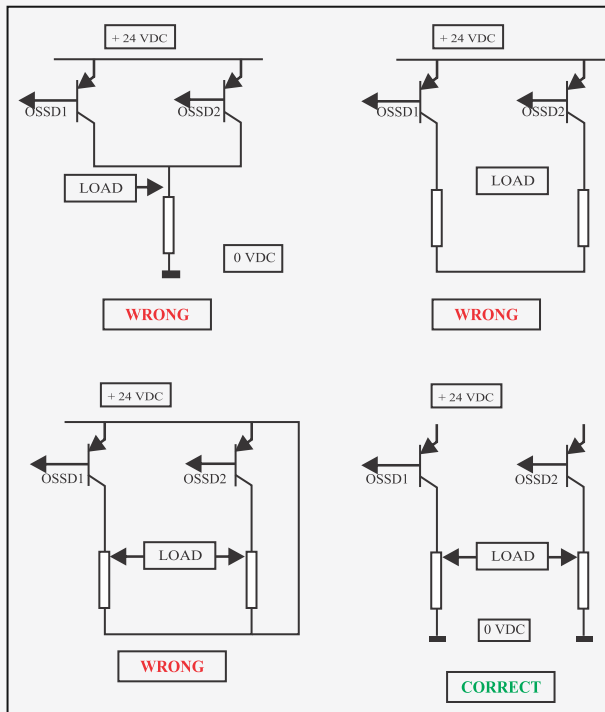
Screen Height (mm)	No. of Channels	Pitch (mm)	Total Height (mm)	Model No.
294	8	36.75	327	NCE-3-B-1-D-4-C
441	12	36.75	474	NCE-3-C-1-D-4-C
588	16	36.75	621	NCE-3-D-1-D-4-C
735	20	36.75	768	NCE-3-I- 1-D-4-C
882	24	36.75	915	NCE-3-E-1-D-4-C
1176	32	36.75	1209	NCE-3-F-1-D-4-C
1323	36	36.75	1356	NCE-3-H-1-D-4-C
1764	48	36.75	1797	NCE-3-G-1-D-4-C

Connection

- 1 : Brown/Red : +24V dc
- 2 : Blue : Ground
- 3 : White : OSSD 1
- 4 : Black : OSSD 2
- 5 : Grey : Not Connected



Output Connection Diagram



Dimensions of Mounting Brackets

Orbital Mekatronik Systems Pvt. Ltd.

 www.orbitalmekatronik.com

Unit No. 134 & 132, Building C7, Bhumi world, Mumbai Nashik highway, Pimples, Bhiwandi-421302, Maharashtra, INDIA.

Tel : +91 2522 672359 Email : marketing@orbitalmekatronik.com / sales@orbitalmekatronik.com