



SAFETY LIGHT CURTAIN TYPE 4



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	14mm/30mm
Ambient Light Immunity	3000 Lux at 5 deg angle of incidence
Response Time	15 milliseconds or less from interruption of light beam to safety outputs going to OFF-state.
Emitter/receiver Operating Range	Short-range models :- 0.8m to 5m Long-range models:- upto 50m
Safety Rating	Type 4 per IEC 61496-1, -2; Category 4
Performance level upto	e
Mission Time	20 yrs (EN ISO 13849)
Screen Height	Refer Chart 1/2
Safety Outputs	Two PNP/NPN outputs (with short circuit protection), sourcing OSSD safety outputs. ON-Stage voltage : $\geq V_{in} - 1.5V$ dc OFF-Stage voltage : 0V dc
Maximum Output Current	100 mA for each output
Maximum Load Capacitance	100nF
Minimum Load Resistance	240 Ohm
Effective Aperture Angle (EAA)	Meets Type 4 requirments per IEC 61496-2:- ± 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 4 SLC have passed vibration and shock tests according to IEC 61496-1 and -2. This includes vibration of 55 Hz at 0.35 mm single amplitude for 16ms.

Safety Light Curtain - 10 mm Pitch : TYPE 4

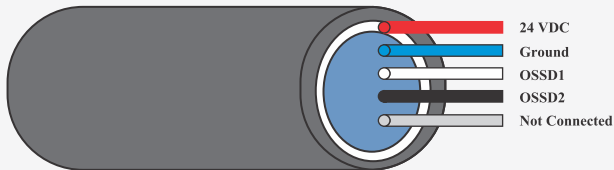
Screen Height (mm)	No. of Channels	Pitch (mm)	Total Height (mm)	Product Code
120	12	10	175	AC-3-C-1-B-4-C
200	20	10	255	AC-3-I-1-B-4-C
240	24	10	295	AC-3-E-1-B-4-C
320	32	10	375	AC-3-F-1-B-4-C
360	36	10	415	AC-3-H-1-B-4-C
480	48	10	535	AC-3-G-1-B-4-C
560	56	10	615	AC-3-J-1-B-4-C
600	60	10	655	AC-3-K-1-B-4-C
720	72	10	775	AC-3-L-1-B-4-C
840	84	10	895	AC-3-M-1-B-4-C
960	96	10	1015	AC-3-N-1-B-4-C

Safety Light Curtain - 18.37 mm Pitch : TYPE 4

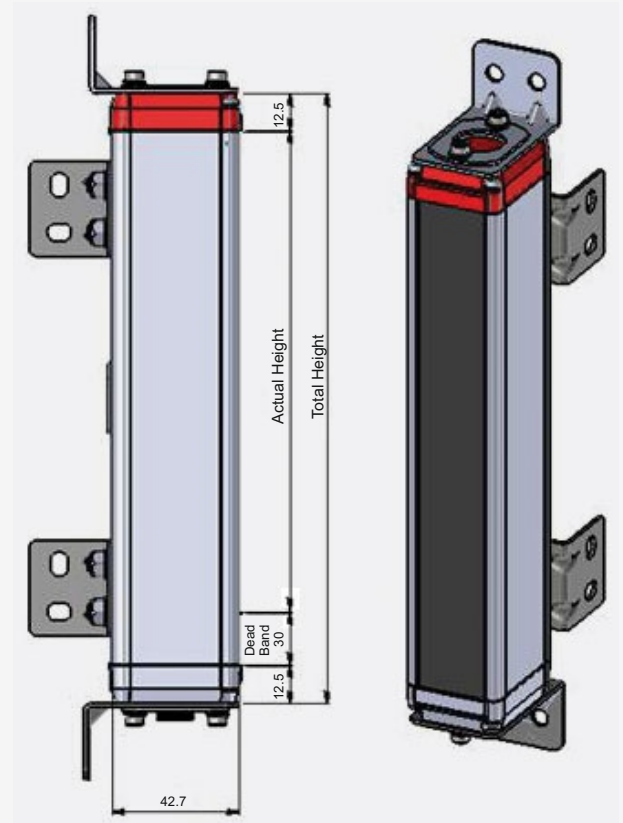
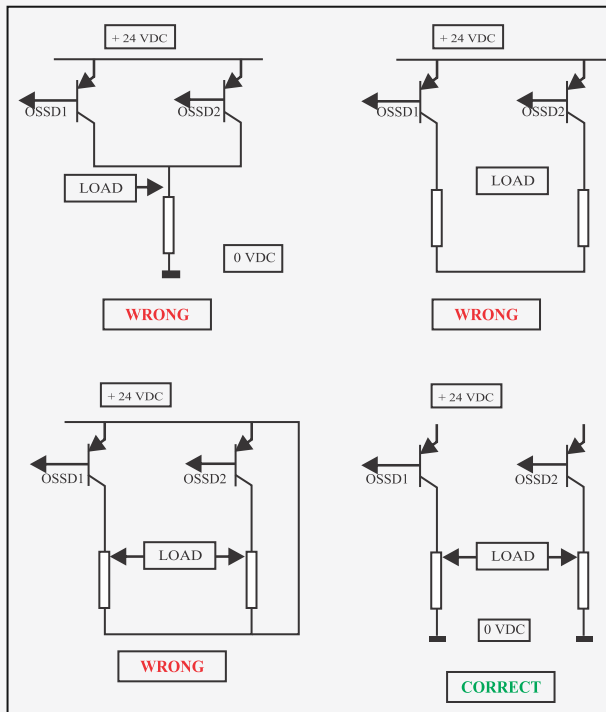
Screen Height (mm)	No. of Channels	Pitch (mm)	Total Height (mm)	Product Code
147	8	18.37	202	AC-3-B-1-C-4-C
220	12	18.37	275	AC-3-C-1-C-4-C
294	16	18.37	349	AC-3-D-1-C-4-C
367	20	18.37	422	AC-3-I-1-C-4-C
441	24	18.37	496	AC-3-E-1-C-4-C
588	32	18.37	643	AC-3-F-1-C-4-C
661	36	18.37	716	AC-3-H-1-C-4-C
882	48	18.37	937	AC-3-G-1-C-4-C
1029	56	18.37	1084	AC-3-J-1-C-4-C
1102	60	18.37	1157	AC-3-K-1-C-4-C
1323	72	18.37	1378	AC-3-L-1-C-4-C
1543	84	18.37	1598	AC-3-M-1-C-4-C
1764	96	18.37	1819	AC-3-N-1-C-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



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