

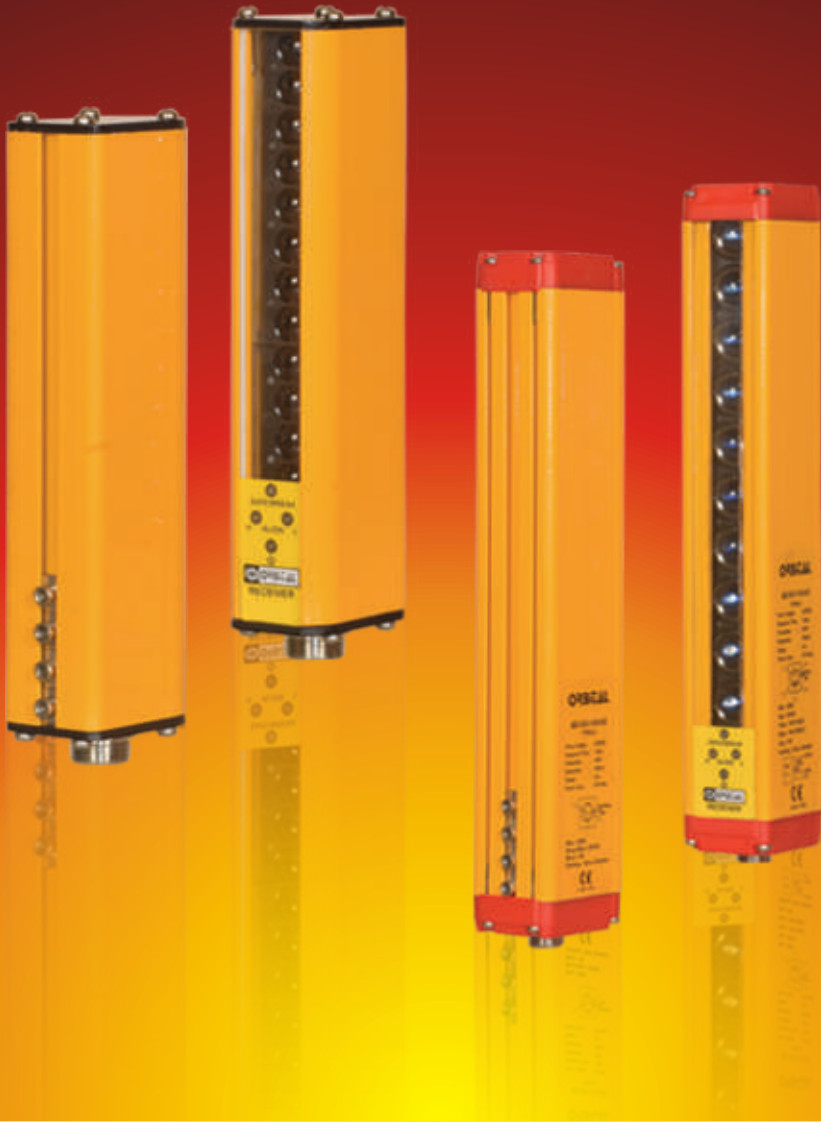
Over 1,00,000
Installations

CE

SAFETY LIGHT CURTAINS

CE

Safety Light Curtains Type 4 / Type 2



- Type 4 / Type 2
as per IEC 61496-1 & 61496-2
- IP 67 / IP 65
- Finger Protection / Hand Protection
- Selective Muting

CE

Pick To Light Sensors



CE

Area Sensors



Orbital Mekatronik Systems Pvt. Ltd.

AN ISO 9001 CERTIFIED COMPANY

TECHNICAL SPECIFICATIONS:

Operating Range	5000 mm		
Effective Angle	$\pm 2.5^\circ$ for TYPE - 4 / $\pm 5^\circ$ for TYPE - 2		
Supply Voltage	24 VDC $\pm$ 20%		
Output	2 x PNP N/O		
Response Time	15 m sec		
Temperature	0 to 60°C		
Humidity	30 to 85% RH		
Emitting Element	Infra Red LED		
Peak Emission Wavelength	940 nm		
Output Load current	Max. 100 mA		
Vibration Resistance	10 to 55 Hz, 0.75mm Amplitude in X Y & Z Direction For 2 Hours each 30 msec ² Acceleration (30 G approx.) in X, Y & Z direction for three time each		
Connection	Transmitter 2 Pin connector & Receiver 4 pin connector		
Dimension	31 mm (Width) x 41 mm (Breadth) x Total Height		



SAFETY LIGHT CURTAIN-10 mm PITCH TYPE 4

Screen Height (mm)	No. of Channels	Pitch (mm)	Total Height (mm)	Product Code
120	12	10	150	AC-3-C-1-B-4-C
200	20	10	230	AC-3-1-1-B-4-C
240	24	10	270	AC-3-E-1-B-4-C
320	32	10	350	AC-3-F-1-B-4-C
360	36	10	390	AC-3-H-1-B-4-C
480	48	10	510	AC-3-G-1-B-4-C
560	56	10	590	AC-3-J-1-B-4-C
600	60	10	630	AC-3-K-1-B-4-C
720	72	10	750	AC-3-L-1-B-4-C
840	84	10	870	AC-3-M-1-B-4-C
960	96	10	990	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	177	AC-3-B-1-C-4-C
220	12	18.37	250	AC-3-C-1-C-4-C
294	16	18.37	324	AC-3-D-1-C-4-C
367	20	18.37	397	AC-3-1-1-C-4-C
441	24	18.37	471	AC-3-E-1-C-4-C
588	32	18.37	618	AC-3-F-1-C-4-C
661	36	18.37	691	AC-3-H-1-C-4-C
882	48	18.37	912	AC-3-G-1-C-4-C
1029	56	18.37	1059	AC-3-J-1-C-4-C
1102	60	18.37	1132	AC-3-K-1-C-4-C
1323	72	18.37	1353	AC-3-L-1-C-4-C
1543	84	18.37	1573	AC-3-M-1-C-4-C
1764	96	18.37	1794	AC-3-N-1-C-4-C



CE



SAFETY LIGHT CURTAIN-18.25 mm PITCH TYPE 2

Screen Height (mm)	No. of Channels	Pitch (mm)	Total Height (mm)	Product Code
145	8	18.25	220	CE-3-B-1-C-4-M
220	12	18.25	295	CE-3-C-1-C-4-M
290	16	18.25	365	CE-3-D-1-C-4-M
365	20	18.25	440	CE-3-I-1-C-4-M
440	24	18.25	515	CE-3-E-1-C-4-M
585	32	18.25	660	CE-3-F-1-C-4-M
660	36	18.25	735	CE-3-H-1-C-4-M
880	48	18.25	955	CE-3-G-1-C-4-M
1020	56	18.25	1095	CE-3-J-1-C-4-M
1095	60	18.25	1170	CE-3-K1-C-4-M
1315	72	18.25	1390	CE-3-L-1-C-4-M
1535	84	18.25	1572	CE-3-M-1-C-4-M
1750	96	18.25	1825	CE-3-N-1-C-4-M

SAFETY LIGHT CURTAIN-36.75 mm PITCH TYPE 2

Screen Height (mm)	No. of Channels	Pitch (mm)	Total Height (mm)	Product Code
294	8	36.75	324	CE-3-B-1-D-4-M
441	12	36.75	471	CE-3-D-1-D-4-M
588	16	36.75	618	CE-3-D-1-D-4-M
735	20	36.75	765	CE-3-I-1-D-4-M
882	24	36.75	912	CE-3-E-1-D-4-M
1176	32	36.75	1206	CE-3-F-1-D-4-M
1323	36	36.75	1353	CE-3-H-1-D-4-M
1764	48	36.75	1794	CE-3-G-1-D-4-M

CE



CE



AREA / BIN SENSORS

RATING & SPECIFICATION

Number of Optical axis	5 Optical axis	8 Optical axis	12 Optical axis	16 Optical axis
Type	T5N-XN5	T6N-XN8	T6N-XN12	T6N-XN16
	T5N-XP5	T6N-XP8	T6N-XP12	T6N-XP16
Sensing height	100mm	140mm	220mm	300mm
Sensing object	Opaque object φ30mm min	Opaque object φ30mm min		
Sensing range	3m	4m		
Beam pitch	25mm	20mm		
Voltage	12~24V DC pulse(P-P)±10% max.			

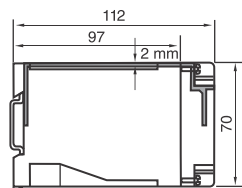
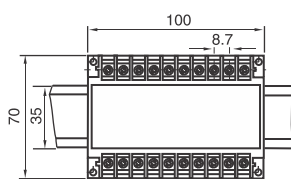
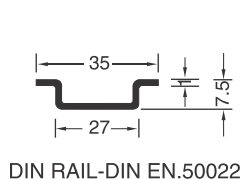
FEATURES:

- **Micro controller based Embedded technology**
- **SELF TEST:** Built in self test to ensure that the electronic Components and logic circuit are functioning properly. System will go to wait state if the self test detect a malfunction.
- **DUAL ELECTRONIC CIRCUITS:** With separate outputs and Feedback for each output to add the reliability and to ensure failsafe operation.
- **BUILT IN SURGE SUPPRESSOR:** To safeguard against power Supply surges and electrical noise.
- **HOUSING:** Extruded Aluminium Sections ensure that the Product can withstand severe mechanical impacts.
- **MOUNTING:** "T" slots allow for easy mounting arrangements.
- **OPTICS:** Well designed optics ensure easy alignment.
- **OPTICAL COMMUNICATION:** No interconnecting cables. Immune to noise.
- **CHANNEL BY PASS OPERATION:** Programming of channels into bypass condition.

READY RECKONER - I

Parameter	Code	Specification
Supply Voltage (V)	1	110 VAC $\pm$ 15%, 50Hz
	2	230 VAC $\pm$ 15%, 50Hz
	3	24 VDC $\pm$ 15%
Number of Channels (C)	A	04 Channels
	B	08 Channels
	C	12 Channels
	D	16 Channels
	E	24 Channels
	F	32 Channels
	G	48 Channels
	H	36 Channels
	I	20 Channels
	J	56 Channels
	K	60 Channels
	L	72 Channels
	M	84 Channels
	N	96 Channels
Range (R)	1	5000 mm
	2	Special
Pitch (P)	B	10 mm
	C	18.3 mm
	D	36.6 mm
Type of Output (O)	1	2 x N/O Contact
	2	2 x N/C Contact
	3	1 C/O Relay Contact
	4	PNP NO
	5	NPN NO
Model	E	Slim-Line photo screen
Screen Height Available		145, 220, 290, 365, 440, 585, 650, 880, 1020, 1170, 1095, 1315, 1535, 1750.

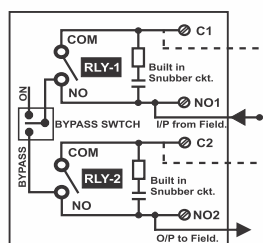
RELAY UNITS



POWER SUPPLY. Type: ORBPS-1

CONNECTION DETAILS:

C1 - COMMON } RLY-1
NO1- NORMALLY OPEN } (RELAY-1)
C2 - COMMON } RLY-2
NO2- NORMALLY OPEN } (RELAY-2)



NOTE: C1 & C2 has to be looped externally.

POWER SUPPLY. Type: ORBPS-1

Specifications

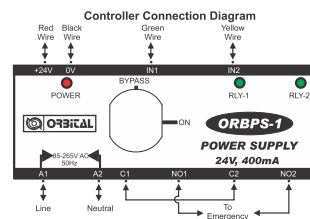
Supply Voltage A1, A2 : 85 - 265V AC, 50Hz .
Supply Available for Safety Light curtain } +24V DC, 400mA.
OUTPUTS : 2 NO Potential free contacts at 5 Amps @ 250V AC (Resistive Load).

OPERATION

- When O/P 1 of Rx (Green wire) is connected to IN1, RLY comes ON.
- When O/P 2 of Rx (Yellow wire) is connected to IN2, RLY comes ON.

BYPASS SWITCH:

- When this switch is in ON mode, outputs No1 & NO2 are independent.
- When this switch is in BYPASS mode outputs NO1 & NO2 are shorted internally.



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