



CERTIFICATE OF CONFORMITY

Certificate.- No.: TA 385223878

Product tested:	Safety Light Curtain	Applicant:	Shenzhen ESPE Technology Co., Ltd. 4A No.2 Hongxing Industrial Park, Guanlan Street, Longhua District, Shenzhen City, P.R. China
		Manufacturer:	Shenzhen ESPE Technology Co., Ltd. 4A No.2 Hongxing Industrial Park, Guanlan Street, Longhua District, Shenzhen City, P.R. China
Type Designation	ESN Series (Refer to appendix 1)		
Parameter:	Optical resolution: 10mm ,20mm, 40mm, IP65, HFT=0, Type B, SFF 97%, SIL 1, SC1 Type 2, Cat.2/PLc, PFHD=1.74E-8		
Standard(s) / Product - Certification Basis:	IEC 61508 Parts 1-7:2010 IEC 62061:2005+A1:2012+A2:2015 ISO 13849-1:2015 IEC 61496-2:2020 IEC 61496-1:2020		
Safety Function:	Safeguarding of machines and other hazardous areas. The Safety Light Curtain ESN Series fulfils the requirements of the relevant standards (Type 2 acc. IEC 61496-1/-2, SILCL 1/SIL 1 acc. to IEC62061/IEC61508, Cat. 2/PLc acc. to ISO 13849-1) and can be used in application up to these safety level.		
Application Restrictions	The Instructions of the associated Installation and Operating Manual Shall be considered.		
Comments:	The issue of this certificate is based upon an examination, whose results are documented in Assessment Report 21-07958-IP-R01~04.		

According to the below stated assessment report(s), the specified product complies with the applicable requirements of the mentioned standard(s).

This Certificate of Conformity has been granted to the applicant based on the results of testing performed by the applicant/manufacturer or an approved laboratory, the consequent review of the test report by TÜV AUSTRIA (SHANGHAI) CO., LTD, and assessment of the instruction manual, product or the production process of this product by TÜV AUSTRIA (SHANGHAI) CO., LTD. Revisions to the referenced certification basis or any change of the design, materials, components or processing may require the repetition of all or some of the qualification evaluation in order for the report and therefore this associated certificate to remain valid. Furthermore the General Conditions for a Certificate of Conformity on a national or international Standard concerning a specified product are valid.



2022-01-20
Date of Issue

Ivan Huang, Certification representative

The validity of this certificate: Max. 3 years from the date of issue.

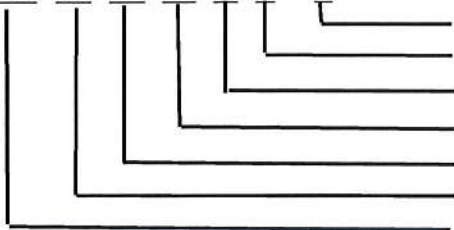
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Appendix 1

Nomenclature of ESN, ELG Series

Type Designation Key

ESN 10 20 L1 N C - 2



Detection distance: 05: 0-0.5m, 2: 0.1-2m, 5: 0.1-5m

Induction mode: C: normal close

Output mode: N: NPN, P: PNP, R: relay (double output)

Mounting bracket: L1: L1 bracket, L2: L2 bracket, L7: L7 bracket

Beam pitch: 10, 20, 40

Number of optical axes: 04, 06, 08,

Product series: ELG: Sectional area 35mm*27mm, ESN: Sectional area 35mm*50mm

Type designation and Rated Value

Beam pitch (10mm)							
Number of beams (n)	Protection height (mm)	Response Time (ms)	Type designation	Number of beams (n)	Protection height (mm)	Response Time (ms)	Type designation
8	70	1.2	ESN0810	104	1030	10.8	ESN10410
12	110	1.6	ESN1210	108	1070	11.2	ESN10810
16	150	2	ESN1610	112	1110	11.6	ESN11210
20	190	2.4	ESN2010	116	1150	12	ESN11610
24	230	2.8	ESN2410	120	1190	12.4	ESN12010
28	270	3.2	ESN2810	124	1230	12.8	ESN12410
32	310	3.6	ESN3210	128	1270	13.2	ESN12810
36	350	4	ESN3610	132	1310	13.6	ESN13210
40	390	4.4	ESN4010	136	1350	14	ESN13610
44	430	4.8	ESN4410	140	1390	14.4	ESN14010
48	470	5.2	ESN4810	144	1430	14.8	ESN14410
52	510	5.6	ESN5210	148	1470	15.2	ESN14810
56	550	6	ESN5610	152	1510	15.6	ESN15210
60	590	6.4	ESN6010	156	1550	16	ESN15610
64	630	6.8	ESN6410	160	1590	16.4	ESN16010
68	670	7.2	ESN6810	164	1630	16.8	ESN16410
72	710	7.6	ESN7210	168	1670	17.2	ESN16810
76	750	8	ESN7610	172	1710	17.6	ESN17210
80	790	8.4	ESN8010	176	1750	18	ESN17610
84	830	8.8	ESN8410	180	1790	18.4	ESN18010
88	870	9.2	ESN8810	184	1830	18.8	ESN18410
92	910	9.6	ESN9210	188	1870	19.2	ESN18810
96	950	10	ESN9610	192	1910	19.6	ESN19210
100	990	10.4	ESN10010				



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Beam pitch (20mm)							
Number of beams (n)	Protection height (mm)	Response Time (ms)	Type designation	Number of beams (n)	Protection height (mm)	Response Time (ms)	Type designation
4	60	0.8	ESN0420	44	860	4.8	ESN4420
6	100	1	ESN0620	46	900	5	ESN4620
8	140	1.2	ESN0820	48	940	5.2	ESN4820
10	180	1.4	ESN1020	50	980	5.4	ESN5020
12	220	1.6	ESN1220	52	1020	5.6	ESN5220
14	260	1.8	ESN1420	54	1060	5.8	ESN5420
16	300	2	ESN1620	56	1100	6	ESN5620
18	340	2.2	ESN1820	58	1140	6.2	ESN5820
20	380	2.4	ESN2020	60	1180	6.4	ESN6020
22	420	2.6	ESN2220	62	1220	6.6	ESN6220
24	460	2.8	ESN2420	64	1260	6.8	ESN6420
26	500	3	ESN2620	66	1300	7	ESN6620
28	540	3.2	ESN2820	68	1340	7.2	ESN6820
30	580	3.4	ESN3020	70	1380	7.4	ESN7020
32	620	3.6	ESN3220	72	1420	7.6	ESN7220
34	660	3.8	ESN3420	74	1460	7.8	ESN7420
36	700	4	ESN3620	76	1500	8	ESN7620
38	740	4.2	ESN3820	78	1540	8.2	ESN7820
40	780	4.4	ESN4020	80	1580	8.4	ESN8020
42	820	4.6	ESN4220				

Beam pitch (40mm)							
Number of beams (n)	Protection height (mm)	Response Time (ms)	Type designation	Number of beams (n)	Protection height (mm)	Response Time (ms)	Type designation
4	120	0.8	ESN0440	26	1000	3	ESN2640
6	200	1	ESN0640	28	1080	3.2	ESN2840
8	280	1.2	ESN0840	30	1160	3.4	ESN3040
10	360	1.4	ESN1040	32	1240	3.6	ESN3240
12	440	1.6	ESN1240	34	1320	3.8	ESN3440
14	520	1.8	ESN1440	36	1400	4	ESN3640
16	600	2	ESN1640	38	1480	4.2	ESN3840
18	680	2.2	ESN1840	40	1560	4.4	ESN4040
20	760	2.4	ESN2040	42	1640	4.6	ESN4240
22	840	2.6	ESN2240	44	1720	4.8	ESN4440
24	920	2.8	ESN2440	46	1800	5	ESN4640




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