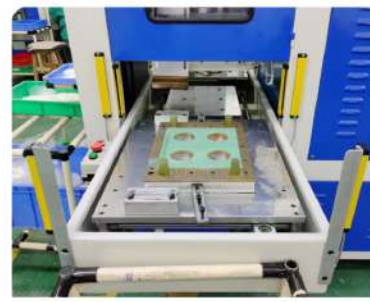


Safety Light Curtain Applications



Resolution

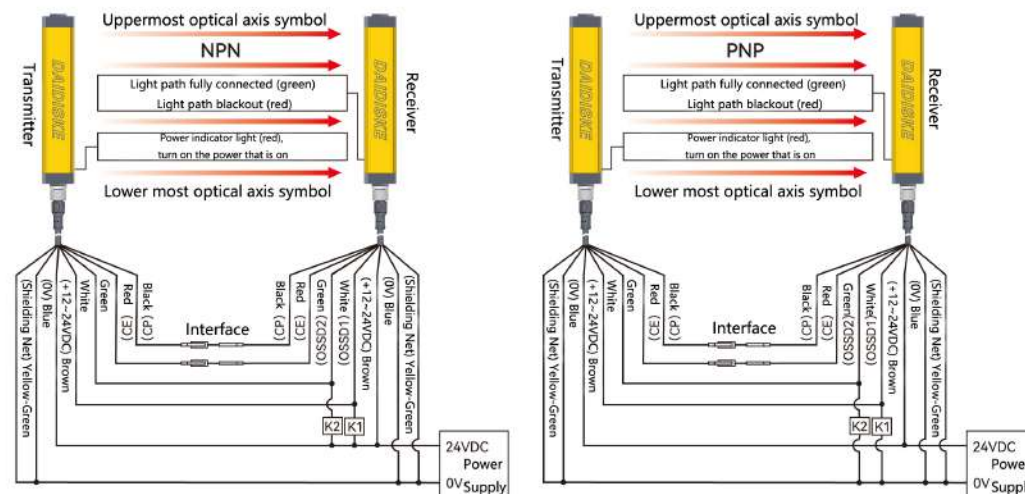


Product Technical Parameters

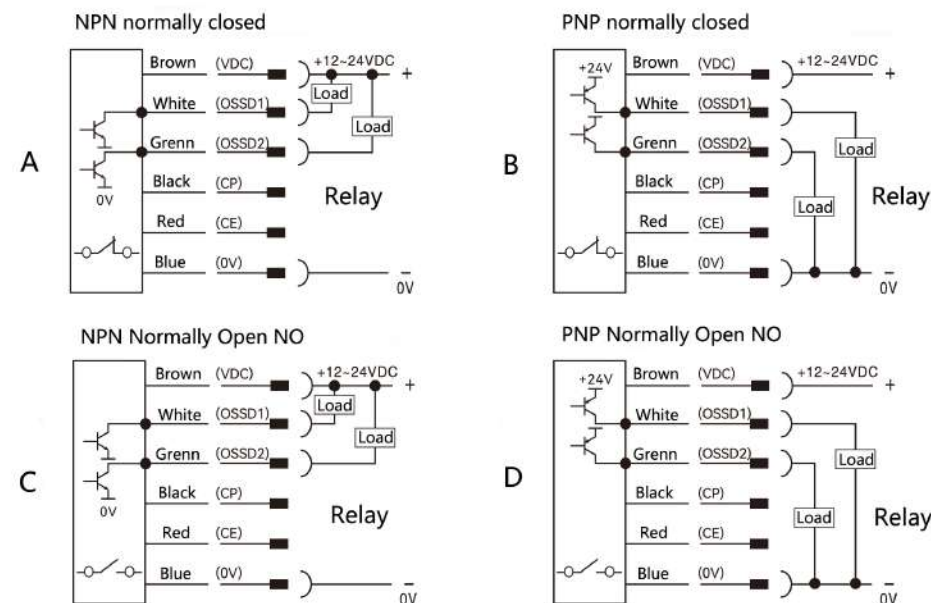
Light curtain configuration	opposite-facing		
Optical axis spacing	10mm	20mm	40mm
Inspection accuracy	18mm	28mm	48mm
Number of beams	12、14、16...70	4、6、8、10...72	4、6、8、10...72
Protection Height	Optical axis spacing X (number of beams - 1)		
Check distance	30~3000mm、30~6000mm		
Response time	≤15ms		
Resistant to light interference	10000Lux (angle of incidence ≥5°)		
Dimensions	30mmx30mmxL (L is the length of emitter/receiver)		
Protection Rating	IP65		
Controller	DQCA DQCA 2		
Power supply voltage	DC12/24V AC110-220V (relay output)		
Current consumption	≤200mA		
Output	NPN/PNP type, filling current 500mA, voltage below 1.5v, polarity, short circuit, overload protection		
Output Status	ON when all optical axes are illuminated (reception indicator green)		
Indicator light	Light thrower: power indicator (red); Light receiver: output indicator light (green) blackout (red)		
Light source	Modulated infrared LEDs		
Connection Method	Round aviation socket, with special connection cable, 3-pole light thrower, 5-pole light receiver		
Shell material	Aluminium alloy, end cap:ABS reinforced nylon		
Ambient light resistant	Incandescent light: illuminated surface illuminance 3000Lx; sunlight: illuminated surface illuminance 10000Lx		
Ambient Temperature	When working:-10~+40°C (but not freezing), when storing:-25~+55°C		
Ambient humidity	Working time:35~85%RH, Storage time:35~95%RH		

DCE series double seven core wiring diagram

This diagram shows an example of NPN dual output seven-pole wiring. This diagram shows an example of PNP dual output seven-pole wiring.



DCE Series Signal Output Selection (Actual Output for Normal Transistor Operation)



DCE Series Specification List

Optical axis spacing: 10mm (K)									
Number of beams	Product model	Protection Height (H)	Light curtain height (J)	Signal output method				Detection distance	
				NPN	PNP	NPN	PNP		
12	DCE12/10-110	110	148	A	B	C	D	0.3-3m	
14	DCE14/10-130	140	178	A	B	C	D	0.3-3m	
16	DCE16/10-150	150	188	A	B	C	D	0.3-3m	
18	DCE18/10-170	170	208	A	B	C	D	0.3-3m	
20	DCE20/10-190	190	228	A	B	C	D	0.3-3m	
22	DCE22/10-210	210	248	A	B	C	D	0.3-3m	
24	DCE24/10-230	230	268	A	B	C	D	0.3-3m	
26	DCE26/10-250	250	288	A	B	C	D	0.3-3m	
28	DCE28/10-270	270	308	A	B	C	D	0.3-3m	
30	DCE30/10-290	290	328	A	B	C	D	0.3-3m	
32	DCE32/10-310	310	348	A	B	C	D	0.3-3m	
34	DCE34/10-330	330	368	A	B	C	D	0.3-3m	
36	DCE36/10-350	350	388	A	B	C	D	0.3-3m	
38	DCE38/10-370	370	408	A	B	C	D	0.3-3m	
40	DCE40/10-390	390	428	A	B	C	D	0.3-3m	
42	DCE42/10-410	410	448	A	B	C	D	0.3-3m	
44	DCE44/10-430	430	468	A	B	C	D	0.3-3m	
46	DCE46/10-450	450	488	A	B	C	D	0.3-3m	
48	DCE48/10-470	470	508	A	B	C	D	0.3-3m	
50	DCE50/10-490	490	528	A	B	C	D	0.3-3m	
52	DCE52/10-510	510	548	A	B	C	D	0.3-3m	
54	DCE54/10-530	530	568	A	B	C	D	0.3-3m	
56	DCE56/10-550	550	588	A	B	C	D	0.3-3m	
58	DCE58/10-570	570	608	A	B	C	D	0.3-3m	
60	DCE60/10-590	590	628	A	B	C	D	0.3-3m	
62	DCE62/10-610	610	648	A	B	C	D	0.3-3m	
64	DCE64/10-630	630	668	A	B	C	D	0.3-3m	
66	DCE66/10-650	650	688	A	B	C	D	0.3-3m	
68	DCE68/10-670	670	708	A	B	C	D	0.3-3m	
70	DCE70/10-690	690	728	A	B	C	D	0.3-3m	

Optical axis spacing: 30mm (K)									
Number of beams	Product model	Protection Height (H)	Light curtain height (J)	Signal output method				Detection distance	
				NPN	PNP	NPN	PNP		
4	DCE04/30-90Q	90	128	A	B	C	D	0.3-3m	
6	DCE06/30-150Q	150	188	A	B	C	D	0.3-3m	
8	DCE08/30-210Q	210	248	A	B	C	D	0.3-3m	
10	DCE10/30-270Q	270	308	A	B	C	D	0.3-3m	
12	DCE12/30-330Q	330	368	A	B	C	D	0.3-3m	
14	DCE14/30-390	390	428	A	B	C	D	0.3-3m	
16	DCE16/30-450	450	488	A	B	C	D	0.3-3m	
18	DCE18/30-510	510	548	A	B	C	D	0.3-3m	
20	DCE20/30-570	570	608	A	B	C	D	0.3-3m	
22	DCE22/30-630	630	668	A	B	C	D	0.3-3m	
24	DCE24/30-690	690	728	A	B	C	D	0.3-3m	
26	DCE26/30-750	750	788	A	B	C	D	0.3-3m	
28	DCE28/30-810	810	848	A	B	C	D	0.3-3m	
30	DCE30/30-870	870	908	A	B	C	D	0.3-3m	
32	DCE32/30-930	930	968	A	B	C	D	0.3-3m	
34	DCE34/30-990	990	1028	A	B	C	D	0.3-3m	
36	DCE36/30-1050	1050	1088	A	B	C	D	0.3-3m	
38	DCE38/30-1110	1110	1148	A	B	C	D	0.3-3m	
40	DCE40/30-1170	1170	1208	A	B	C	D	0.3-3m	
42	DCE42/30-1230	1230	1268	A	B	C	D	0.3-3m	
44	DCE44/30-1290	1290	1328	A	B	C	D	0.3-3m	
46	DCE46/30-1350	1350	1388	A	B	C	D	0.3-3m	
48	DCE48/30-1410	1410	1448	A	B	C	D	0.3-3m	
50	DCE50/30-1470	1470	1508	A	B	C	D	0.3-3m	
52	DCE52/30-1530	1530	1568	A	B	C	D	0.3-3m	
54	DCE54/30-1590	1590	1628	A	B	C	D	0.3-3m	
56	DCE56/30-1650	1650	1688	A	B	C	D	0.3-3m	
58	DCE58/30-1710	1710	1748	A	B	C	D	0.3-3m	
60	DCE60/30-1770	1770	1808	A	B	C	D	0.3-3m	
62	DCE62/30-1830	1830	1868	A	B	C	D	0.3-3m	
64	DCE64/30-1890	1890	1928	A	B	C	D	0.3-3m	
66	DCE66/30-1950	1950	1988	A	B	C	D	0.3-3m	
68	DCE68/30-2010	2010	2048	A	B	C	D	0.3-3m	
70	DCE70/30-2070	2070	2108	A	B	C	D	0.3-3m	
72	DCE72/30-2130	2130	2168	A	B	C	D	0.3-3m	

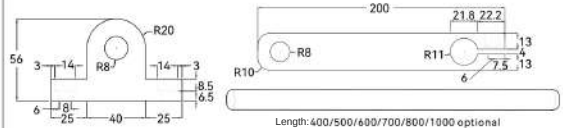
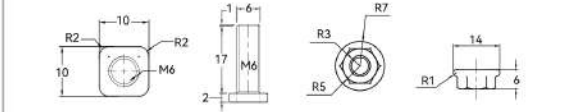
Optical axis spacing: 20mm (K)									
Number of beams	Product model	Protection Height (H)	Light curtain height (J)	Signal output method				Detection distance	
				NPN	PNP	NPN	PNP		
6	DCE06/20-100	100	138	A	B	C	D	0.3-3m	
8	DCE08/20-140	140	178	A	B	C	D	0.3-3m	
10	DCE10/20-180	180	218	A	B	C	D	0.3-3m	
12	DCE12/20-220	220	258	A	B	C	D	0.3-3m	
14	DCE14/20-260	260	298	A	B	C	D	0.3-3m	
16	DCE16/20-300	300	338	A	B	C	D	0.3-3m	
18	DCE18/20-340	340	378	A	B	C	D	0.3-3m	
20	DCE20/20-380	380	418	A	B	C	D	0.3-3m	
22	DCE22/20-420	420	458	A	B	C	D	0.3-3m	
24	DCE24/20-460	460	498	A	B	C	D	0.3-3m	
26	DCE26/20-500	500	538	A	B	C	D	0.3-3m	
28	DCE28/20-540	540	578	A	B	C	D	0.3-3m	
30	DCE30/20-580	580	618	A	B	C	D	0.3-3m	
32	DCE32/20-620	620	658	A	B	C	D	0.3-3m	
34	DCE34/20-660	660	698	A	B	C	D	0.3-3m	
36	DCE36/20-700	700	738	A	B	C	D	0.3-3m	
38	DCE38/20-740	740	778	A	B	C	D	0.3-3m	
40	DCE40/20-780	780	818	A	B	C	D	0.3-3m	
42	DCE42/20-820	820	858	A	B	C	D	0.3-3m	
44	DCE44/20-860	860	898	A	B	C	D	0.3-3m	
46	DCE46/20-900	900	938	A	B	C	D	0.3-3m	
48	DCE48/20-940	940	978	A	B	C	D	0.3-3m	
50	DCE50/20-980	980	1018	A	B	C	D	0.3-3m	
52	DCE52/20-1020	1020	1058	A	B	C	D	0.3-3m	
54	DCE54/20-1060	1060	1098	A	B	C	D	0.3-3m	
56	DCE56/20-1100	1100	1138	A	B	C	D	0.3-3m	
58	DCE58/20-1140	1140	1178	A	B	C	D	0.3-3m	
60	DCE60/20-1180	1180	1218	A	B	C	D	0.3-3m	
62	DCE62/20-1220	1220	1258	A	B	C	D	0.3-3m	
64	DCE64/20-1260	1260	1298	A	B	C	D	0.3-3m	
66	DCE66/20-1300	1300	1338	A	B	C	D	0.3-3m	
68	DCE68/20-1340	1340	1378	A	B	C	D	0.3-3m	
70	DCE70/20-1380	1380	1418	A	B	C	D	0.3-3m	
72	DCE72/20-1420	1420	1458	A	B	C	D	0.3-3m	

Optical axis spacing: 40mm (K)									
Number of beams	Product model	Protection Height (H)	Light curtain height (J)	Signal output method				Detection distance	
				NPN	PNP	NPN	PNP		
4	DCE04/40-120	120	158	A	B	C	D	0.3-3m	
6	DCE06/40-200	200	238	A	B	C	D	0.3-3m	
8	DCE08/40-280	280	318	A	B	C	D	0.3-3m	
10	DCE10/40-360	360	398	A	B	C	D	0.3-3m	
12	DCE12/40-440	440	478	A	B	C	D	0.3-3m	
14	DCE14/40-520	520	558	A	B	C	D	0.3-3m	
16	DCE16/40-600	600	638	A	B	C	D	0.3-3m	
18	DCE18/40-680	680	718	A	B	C	D	0.3-3m	
20	DCE20/40-760	760	798	A	B	C	D	0.3-3m	
22	DCE22/40-840	840	878	A	B	C	D	0.3-3m	
24	DCE24/40-920	920	958	A	B	C	D	0.3-3m	
26	DCE26/40-1000	1000	1038	A	B	C	D	0.3-3m	
28	DCE28/40-1080	1080	1118	A	B	C	D	0.3-3m	
30	DCE30/40-1160	1160	1198	A	B	C	D	0.3-3m	
32	DCE32/40-1240	1240	1278	A	B	C	D	0.3-3m	
34	DCE34/40-1320	1320	1358	A	B	C	D	0.3-3m	
36	DCE36/40-1400	1400	1438	A	B	C	D	0.3-3m	
38	DCE38/40-1480	1480	1518	A	B	C	D	0.3-3m	
40	DCE40/40-1560	1560	1598	A	B	C	D	0.3-3m	
42	DCE42/40-1640	1640	1678	A	B	C	D	0.3-3m	
44	DCE44/40-1720	1720	1758	A	B	C	D	0.3-3m	
46	DCE46/40-1800	1800	1838	A	B	C	D	0.3-3m	
48	DCE48/40-1880	1880	1918	A	B	C	D	0.3-3m	
50	DCE50/40-1960	1960	1998	A	B	C	D	0.3-3m	
52	DCE52/40-2040	2040	2078	A	B	C	D	0.3-3m	
54	DCE54/40-2120	2120	2158	A	B	C	D	0.3-3m	
56	DCE56/40-2200	2200	2238	A	B	C	D	0.3-3m	
58	DCE58/40-2280	2280	2318	A	B	C	D	0.3-3m	
60	DCE60/40-2360	2360	2398	A	B	C	D	0.3-3m	
62	DCE62/40-2440	2440	2478	A	B	C	D	0.3-3m	
64	DCE64/40-2520	2520	2558	A	B	C	D	0.3-3m	
66	DCE66/40-2600	2600	2638	A	B	C	D	0.3-3m	
68	DCE68/40-2680	2680	2718	A	B	C	D	0.3-3m	
70	DCE70/40-2760	2760	2798	A	B	C	D	0.3-3m	
72	DCE72/40-2840	2840	2878	A	B	C	D	0.3-3m	

DCE Series Safety Light Curtain Accessories Selection Guide

Factory configuration:



Product Name	Shape	Dimension drawing (mm)	Application
Stainless steel tubular support		 Length: 400/500/600/700/800/1000 optional	 For tubular mounting
T-shaped screw			 For side-slot mounting
Convex nut		