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Focus on high-end quality

CE ISO9001:2015
RoHS IP65

Technology changes the future

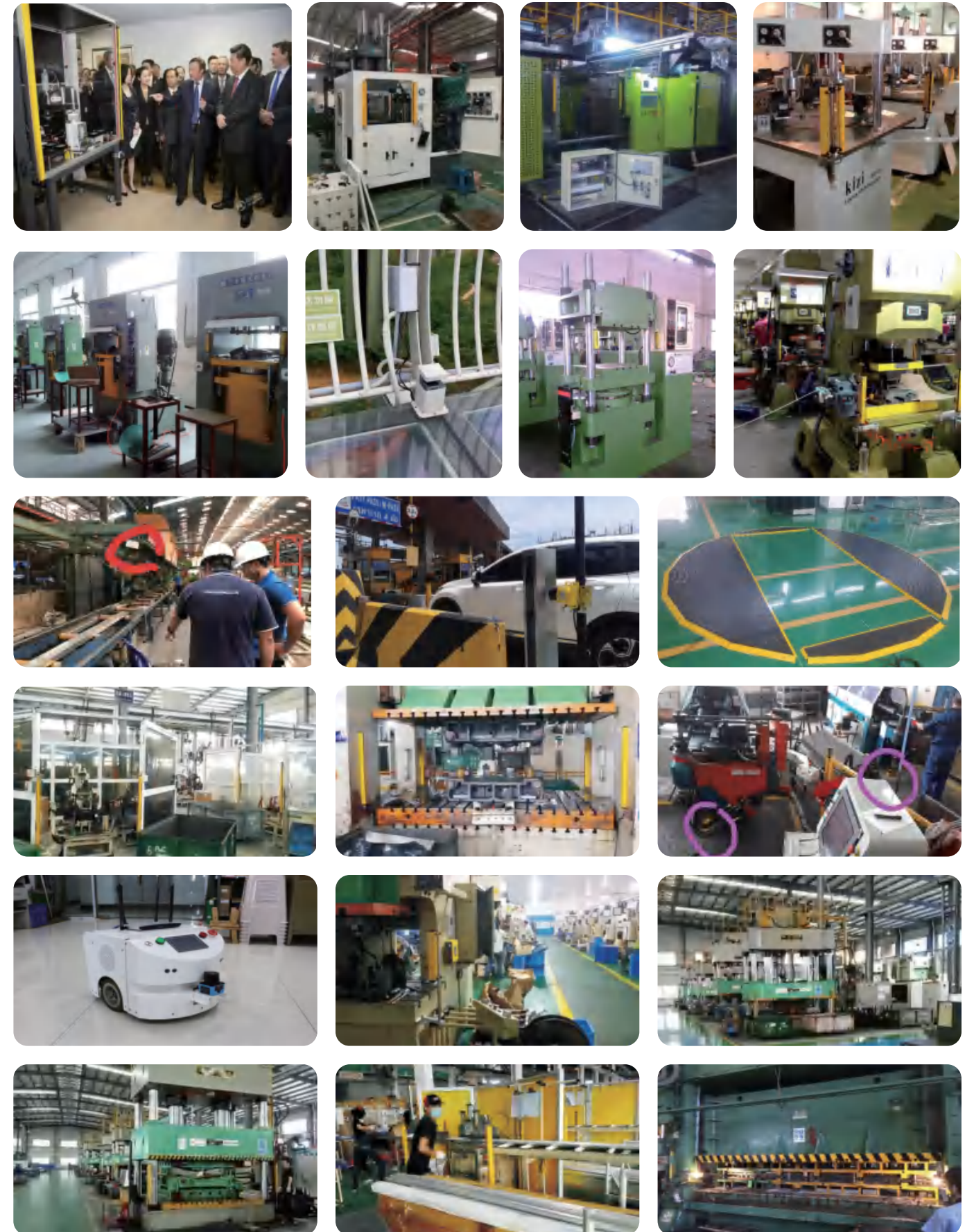
COMPREHENSIVE CATALOG OF SENSORS **Safety light curtain**

Safety light curtain/Safety laser scanner/safety mat/safety edge/safety relay/Photoelectric switch

Safety light curtain application case



Other product application cases





Model-QX

Light synchronization safety light curtain

- Using optical synchronization technology
- Small size, easy installation, super cost-effective
- Can effectively shield 99% of interference signals
- Polarity, short circuit, overload protection, self-check

It is widely used in more than 80% equipment such as presses, hydraulic presses, hydraulic presses, shears, automatic doors and other dangerous occasions.

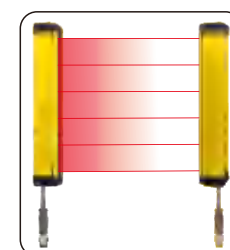


◆ Product characteristics

- ★ Perfect self-check function: When the safety screen protector fails, ensure that the wrong signal is not sent to the controlled electrical appliances.
- ★ Strong anti-interference ability: The system has good anti-interference ability to electromagnetic signal, stroboscopic light, welding arc and surrounding light source;
- ★ Using optical synchronization, simple wiring, saving installation time;
- ★ Surface mounting technology is adopted, which has superior seismic performance.
- ★ It conforms to IEC61496-1/2 standard safety grade and TUV CE certification.
- ★ The corresponding time is short ($\leq 15\text{ms}$), and the safety and reliability performance is high.
- ★ The size design is 25mm*23mm, the installation is simple and convenient;
- ★ All electronic components adopt world-renowned brand accessories.

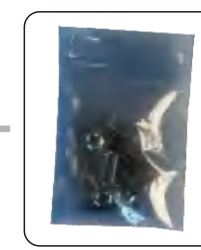
◆ Product configuration

The grating is composed of a light emitter and a light receiver.



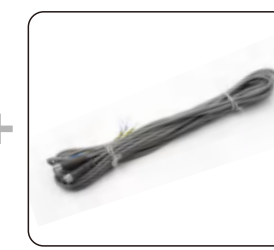
emitter, receiver

+



T nut + round screw

+



data cable



Safety light curtain controller QCA (optional)



Safety light curtain double-sided controller QCA2 (optional)

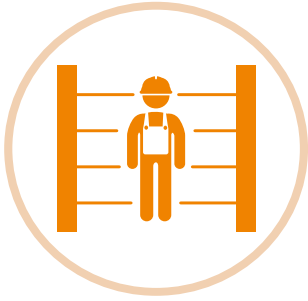
◆ Resolving power



spacing10mm
Finger protective spacing



spacing 20mm
Palm protective spacing



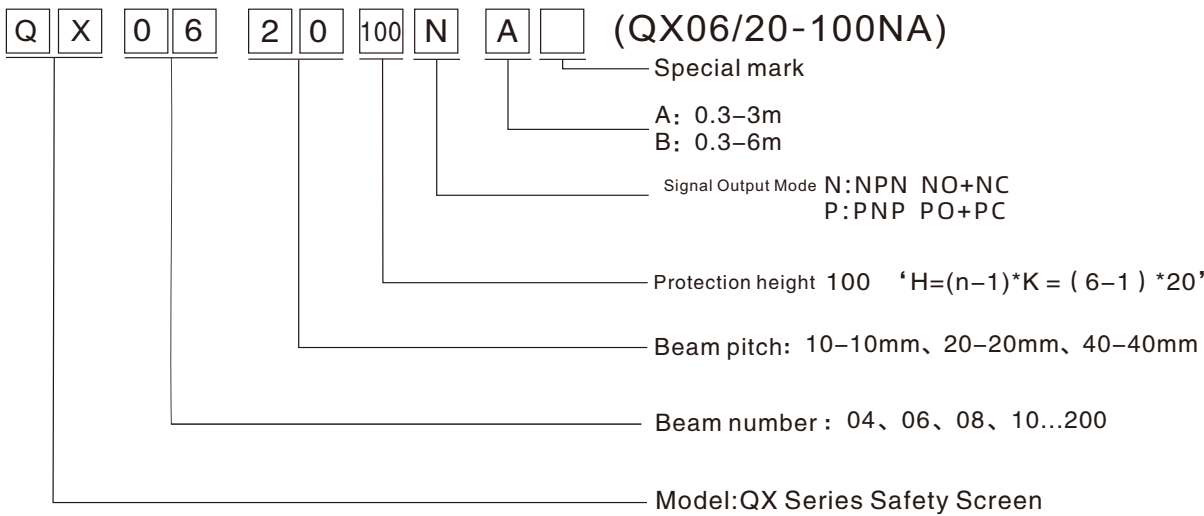
spacing 40mm
Arm or body protection spacing

◆ Technical parameters of products

Light curtain form	Counter shooting		
Beam pitch	10mm	20mm	30mm
Check the accuracy	18mm	28mm	38mm
Beam number	8、10...32	4、6...32	4、6...32
Height of protection	Beam pitch X (Beam number-1)		
Detection distance	30 ~ 3000mm 、 30~6000mm		
Response time	≤15ms		
Anti light interference	10000Lux(Incidence angle ≥5°)		
Outline size	25x23xLmm(L is the length of light emitter/receiver)		
Protection level	IP65		
Controller	QCA QCA2		
Supply voltage	DC12/24V AC110-220V(Relay output)		
Consumption current	≤200mA		
Output	NPN/PNP type, with current 500 mA and voltage less than 1.5 v, polarity, short circuit and overload protection		
Output state	ON (Receiving Indicator Green Light)		
Indicator light	Projector: Power indicator (red); Receiver: Output indicator (green) shading (red)		
Light source	LED Modulated Infrared LED		
Connection mode	Circular aviation socket with special connecting cable, 3 cores of projector and 5 cores of receiver		
Shell material	Aluminum alloy, end cover: ABS reinforced nylon		
Environmental light resistance	Incandescent light: illumination of the receiving surface 3000Lx; sunlight: illumination of the receiving surface 10000Lx		
Ambient temperature	When working: - 10 ~ + 40 C (but not freezing), when preserved: - 25 ~ + 55 C		
Ambient humidity	Work: 35-85% RH, save: 35-95% RH		

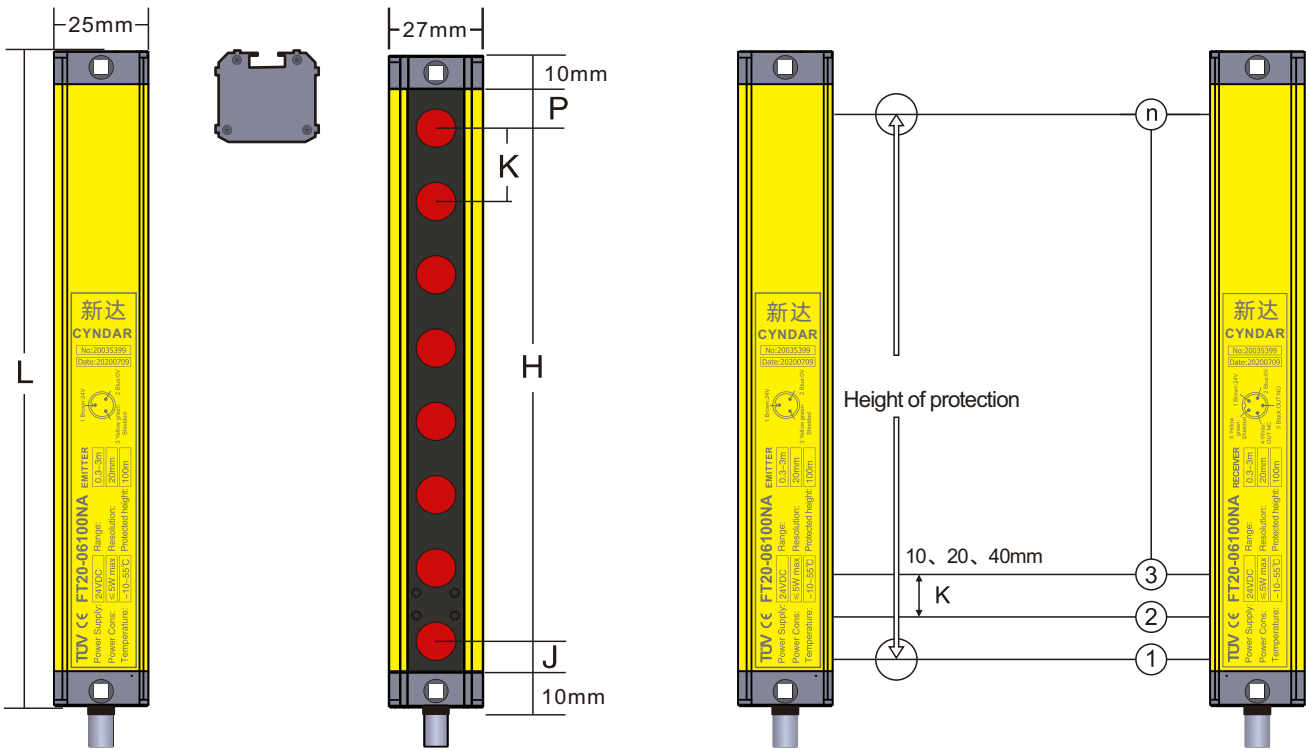
◆ The specifications of QX type safety screen are as follows

Unit: mm



详细型号请见下一页规格表 Detailed models can be found in the specification sheet on the previous page.

◆ Dimensions



Remarks

H= (n-1) *K=Protection height L:Total height of light curtain

K:Optical axis spacing n:Number of beams L=P+H+J+10mm+10mm

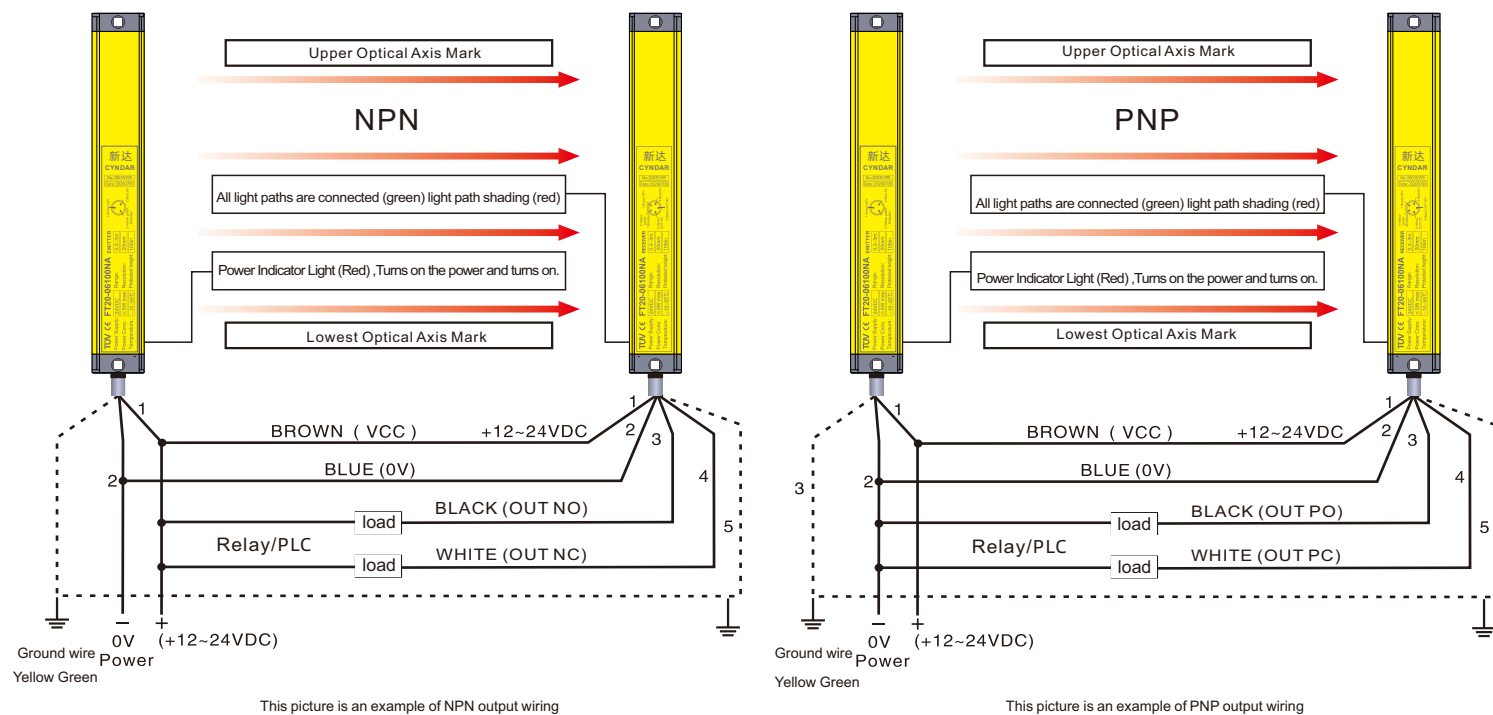
K(mm)	10	20	40
P(mm)	5	10	10
J(mm)	5	10	10

◆ Specification List

Beam pitch	Light beam	Protection height mm(H)	Screen height MM(L)	Product model	Signal output mode		Detection distance
					NPN	PNP	
10mm (K)	8	70	104	QX08/10-70NA	N	P	0.3-3m
	10	90	124	QX10/10-90NA	N	P	0.3-3m
	12	110	144	QX12/10-110NA	N	P	0.3-3m
	14	130	164	QX14/10-130NA	N	P	0.3-3m
	16	150	184	QX16/10-150NA	N	P	0.3-3m
	18	170	204	QX18/10-170NA	N	P	0.3-3m
	20	190	224	QX20/10-190NA	N	P	0.3-3m
	22	210	244	QX22/10-210NA	N	P	0.3-3m
	24	230	264	QX24/10-230NA	N	P	0.3-3m
	26	250	284	QX26/10-250NA	N	P	0.3-3m
	28	270	304	QX28/10-270NA	N	P	0.3-3m
	30	290	324	QX30/10-290NA	N	P	0.3-3m
	32	310	344	QX32/10-310NA	N	P	0.3-3m
	34	330	364	QX34/10-330NA	N	P	0.3-3m
	36	350	384	QX36/10-350NA	N	P	0.3-3m
	38	370	404	QX38/10-370NA	N	P	0.3-3m
	40	390	424	QX40/10-390NA	N	P	0.3-3m
	42	410	444	QX42/10-410NA	N	P	0.3-3m
	44	430	464	QX44/10-430NA	N	P	0.3-3m
	46	450	484	QX46/10-450NA	N	P	0.3-3m
	...	...	...	QX...10-...NA	N	P	0.3-3m
20mm (K)	198	1970	2004	QX198/20-1970NA	N	P	0.3-3m
	200	1990	2024	QX200/20-1990NA	N	P	0.3-3m
	6	100	144	QX06/20-100NA	N	P	0.3-3m
	8	140	184	QX08/20-140NA	N	P	0.3-3m
	10	180	224	QX10/20-180NA	N	P	0.3-3m
	12	220	264	QX12/20-220NA	N	P	0.3-3m
	14	260	304	QX14/20-260NA	N	P	0.3-3m
	16	300	344	QX16/20-300NA	N	P	0.3-3m
	18	340	384	QX18/20-340NA	N	P	0.3-3m
	20	380	424	QX20/20-380NA	N	P	0.3-3m
	22	420	464	QX22/20-420NA	N	P	0.3-3m
	24	460	504	QX24/20-460NA	N	P	0.3-3m
	26	500	544	QX26/20-500NA	N	P	0.3-3m
	28	540	584	QX28/20-540NA	N	P	0.3-3m
	30	580	624	QX30/20-580NA	N	P	0.3-3m
	32	620	664	QX32/20-620NA	N	P	0.3-3m
	34	660	704	QX34/20-660NA	N	P	0.3-3m
	36	700	744	QX36/20-700NA	N	P	0.3-3m
	38	740	784	QX38/20-740NA	N	P	0.3-3m
	40	780	824	QX40/20-780NA	N	P	0.3-3m
	42	820	864	QX42/20-820NA	N	P	0.3-3m
	44	860	904	QX44/20-860NA	N	P	0.3-3m
	...	...	...	QX...20-...NA	N	P	0.3-3m
40mm (K)	198	3940	3984	QX198/40-3940NA	N	P	0.3-3m
	200	3980	4024	QX200/40-3980NA	N	P	0.3-3m
	4	120	164	QX04/40-120NA	N	P	0.3-3m
	6	200	244	QX06/40-200NA	N	P	0.3-3m
	8	280	324	QX08/40-280NA	N	P	0.3-3m
	10	360	404	QX10/40-360NA	N	P	0.3-3m
	12	440	484	QX12/40-440NA	N	P	0.3-3m
	14	520	564	QX14/40-520NA	N	P	0.3-3m
	16	600	644	QX16/40-600NA	N	P	0.3-3m
	18	680	724	QX18/40-680NA	N	P	0.3-3m
	20	760	804	QX20/40-760NA	N	P	0.3-3m
	22	840	884	QX22/40-840NA	N	P	0.3-3m
	24	920	964	QX24/40-8920NA	N	P	0.3-3m
	26	1000	1044	QX26/40-1000NA	N	P	0.3-3m
	28	1080	1124	QX28/40-1080NA	N	P	0.3-3m
	30	1160	1204	QX30/40-1160NA	N	P	0.3-3m
	32	1240	1284	QX32/40-1240NA	N	P	0.3-3m
	34	1320	1364	QX34/40-1320NA	N	P	0.3-3m
	36	1400	1444	QX36/40-1400NA	N	P	0.3-3m
	38	1480	1524	QX38/40-1480NA	N	P	0.3-3m
	40	1560	1604	QX40/40-1560NA	N	P	0.3-3m
	42	1640	1684	QX42/40-1640NA	N	P	0.3-3m
	44	1720	1764	QX44/40-1720NA	N	P	0.3-3m
	46	1800	1844	QX46/40-1800NA	N	P	0.3-3m
	48	1880	1924	QX48/40-1880NA	N	P	0.3-3m
	50	1960	2004	QX50/40-1960NA	N	P	0.3-3m
	52	2040	2084	QX52/40-2040NA	N	P	0.3-3m
	54	2120	2164	QX54/40-2120NA	N	P	0.3-3m
	56	2200	2244	QX56/40-2200NA	N	P	0.3-3m
	58	2280	2324	QX58/40-2280NA	N	P	0.3-3m
	60	2360	2404	QX60/40-2360NA	N	P	0.3-3m
	62	2440	2484	QX62/40-2440NA	N	P	0.3-3m
	64	2520	2564	QX64/40-2520NA	N	P	0.3-3m
	66	2600	2644	QX66/40-2600NA	N	P	0.3-3m
	68	2680	2724	QX68/40-2680NA	N	P	0.3-3m
	70	2760	2804	QX70/40-2760NA	N	P	0.3-3m
	72	2840	2884	QX72/40-2840NA	N	P	0.3-3m
	74	2920	2964	QX74/40-2920NA	N	P	0.3-3m
	76	3000	3044	QX76/40-3000NA	N	P	0.3-3m
	78	3080	3124	QX78/40-3080NA	N	P	0.3-3m
	80	3160	3204	QX80/40-3160NA	N	P	0.3-3m
	...	...	...	QX...40-...NA	N	P	0.3-3m
	198	7880	7924	QX198/40-7880NA	N	P	0.3-3m
	200	7960	8004	QX200/40-7960NA	N	P	0.3-3m

Note: The output mode is detailed in the specifications on the previous page. special specifications can be customized separately, and the detection distance up to 3-6M needs to be specified in advance.

◆ QX three and five core series wiring diagram:



◆ QX signal output selection (actual output of transistor working normally)

