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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-COT No blind spot safety light curtain

- 0.01 second quick response
- Can effectively shield 99% of interference signals
- No blind spot detection, safer
- Polarity, short circuit, overload protection, self-check

It is widely used in large machinery such as presses, hydraulic presses, hydraulic presses, shears, automatic doors, or dangerous occasions that require long-distance protection.



Ultra long sensing distance
3m、6m、10m

◆ 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;
- ★ Easy installation and debugging, simple wiring, beautiful appearance;
- ★ 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 dimension design is 30mm*28mm. The safety sensor can be connected to the cable (M12) through the air socket.
- ★ All electronic components adopt world-renowned brand accessories.
- ★ It provides shunt indication function to visually display the on-off state of the beam.
- ★ The product meets the requirements of GB/T19436.1, GB/19436.2 and GB4584-2007.

◆ Product configuration

The controller, the light emitter, the light receiver, the transmission line and the power line are composed.



7-core data cable



QCA-Built-in controller

◆ Resolving power

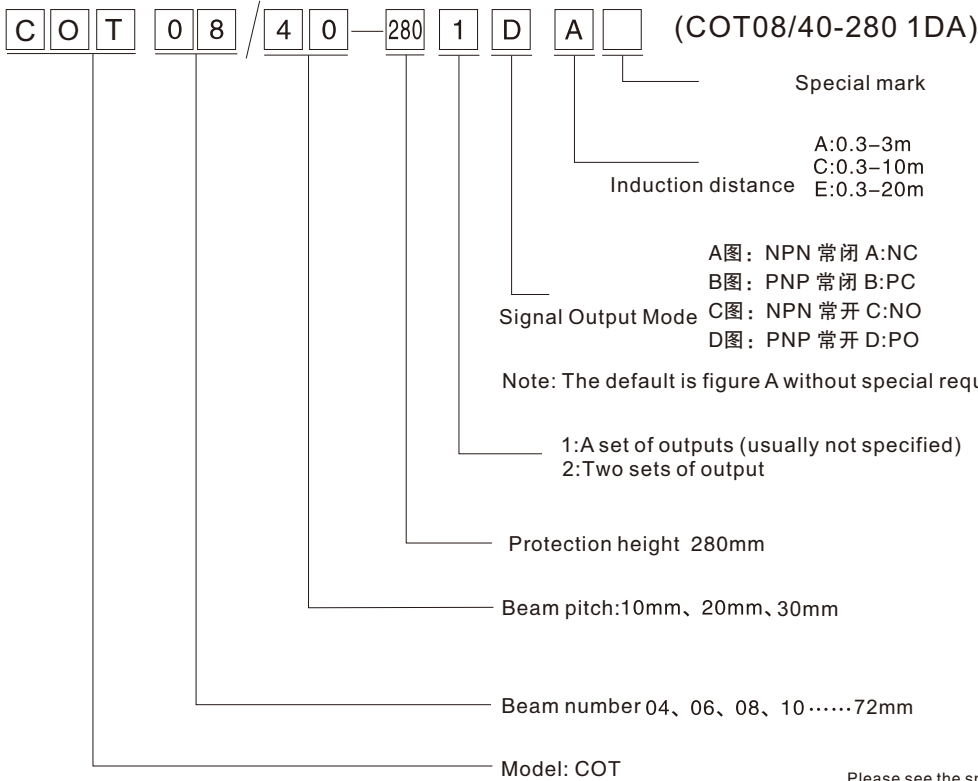


◆ Technical parameters of products

Light curtain form	Counter shooting		
Beam pitch	10mm	20mm	30mm
Check the accuracy	18mm	28mm	48mm
Beam number	12、14、16...70	4、6、8、10...72	4、6、8、10...72
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	30x28xLmm(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, 7cores of projector and 7cores 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		

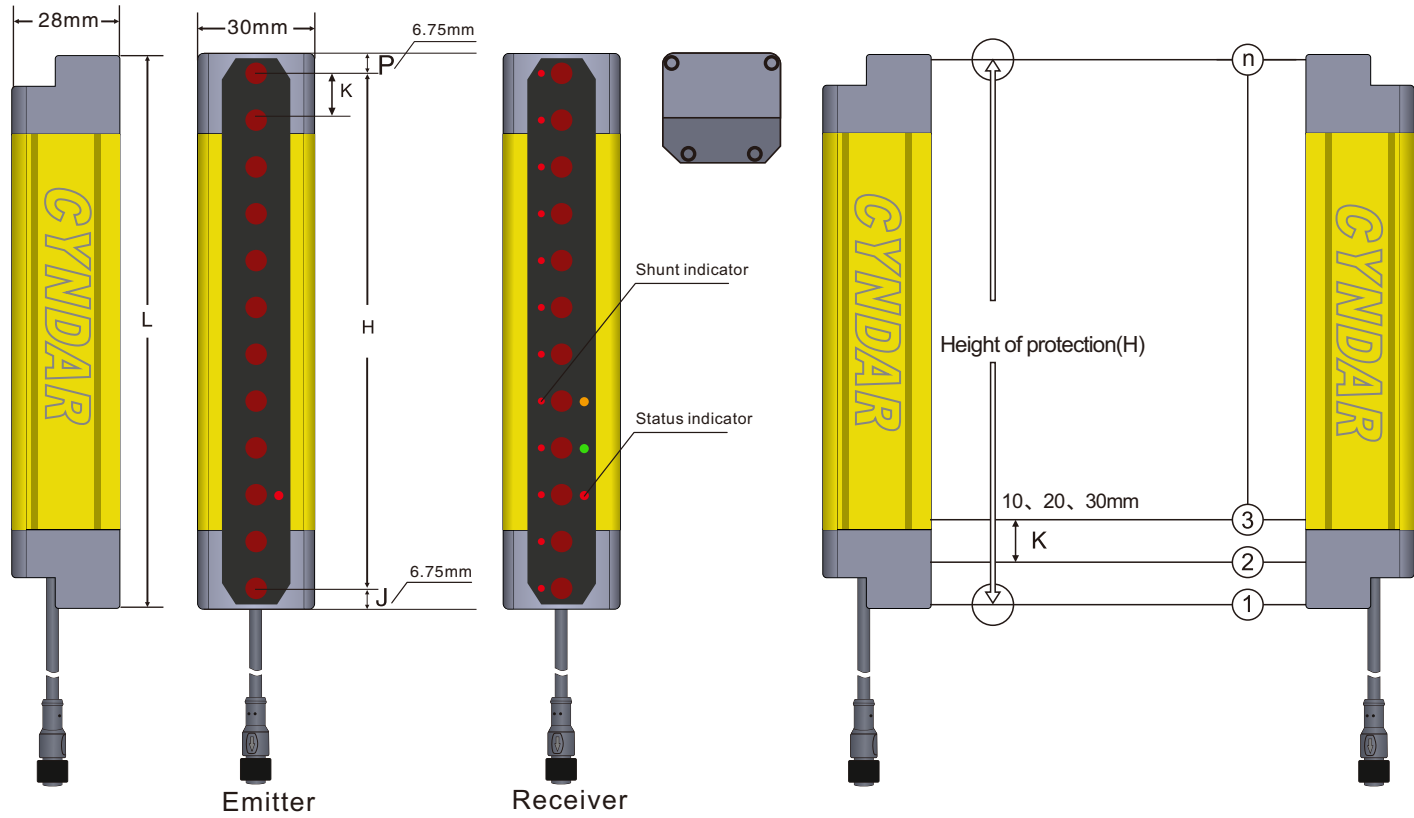
◆ The specifications of COT type safety screen are as follows

Unit: mm



Please see the specification table on the next page for detailed models.

◆ Dimensions



Remarks: $H = (n-1) * K$ = Height of detection n:Optical axis number
L:Total length of light screen K:Optical axis spacing

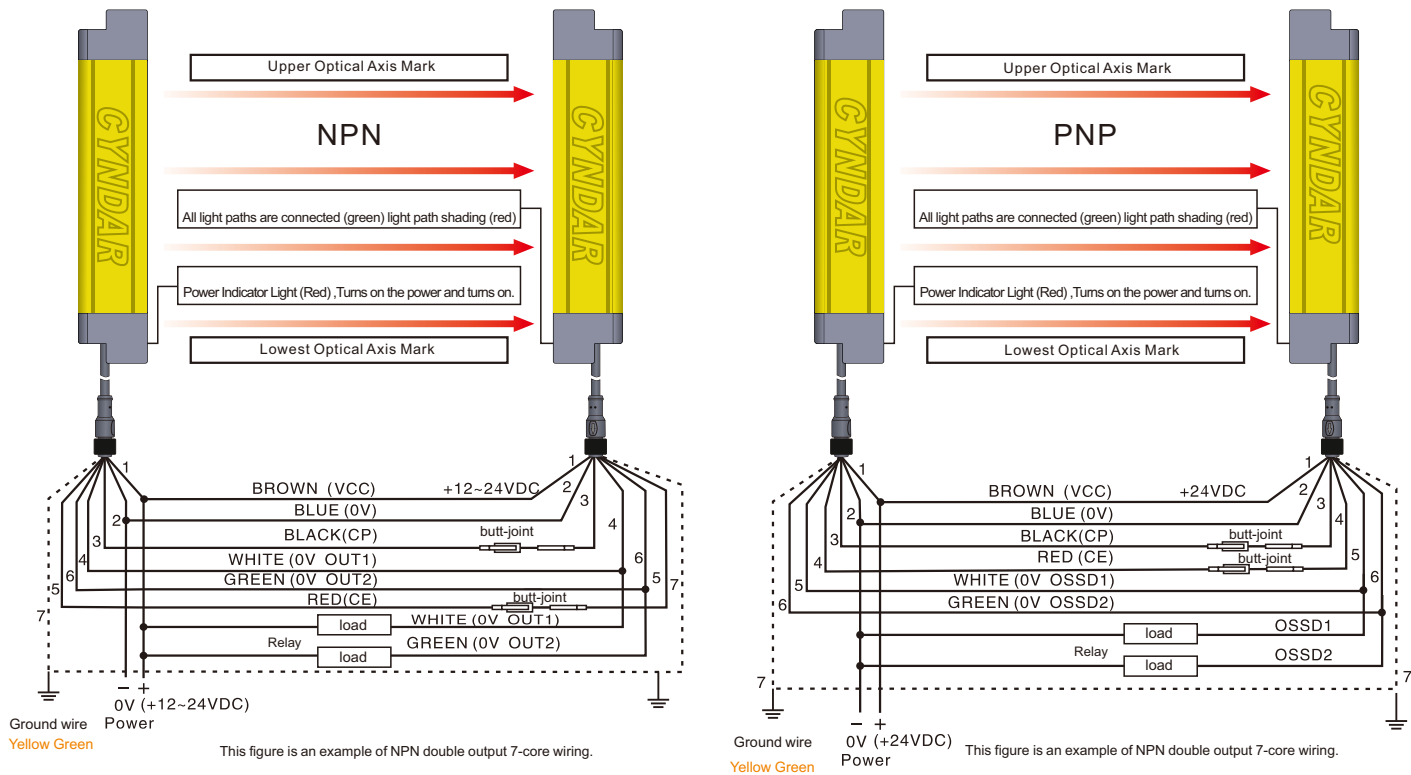
K(mm)	10	20	30
P/J (mm)	6.75	6.75	6.75

COT:Specification List

Beam pitch	Light beam	Protection height mm(H)	Screen height MM(L)	Product model	Signal output mode				Detection distance
					NPN	PNP	NPN	PNP	
10mm (K)	12	110	123.5	COT12/10-110	A	B	C	D	0.3-3m
	14	140	153.5	COT14/10-140	A	B	C	D	0.3-3m
	16	150	163.5	COT16/10-150	A	B	C	D	0.3-3m
	18	170	183.5	COT18/10-170	A	B	C	D	0.3-3m
	20	190	203.5	COT20/10-190	A	B	C	D	0.3-3m
	22	210	223.5	COT22/10-210	A	B	C	D	0.3-3m
	24	230	243.5	COT24/10-230	A	B	C	D	0.3-3m
	26	250	263.5	COT26/10-250	A	B	C	D	0.3-3m
	28	270	283.5	COT28/10-270	A	B	C	D	0.3-3m
	30	290	303.5	COT30/10-290	A	B	C	D	0.3-3m
	32	310	323.5	COT32/10-310	A	B	C	D	0.3-3m
	34	330	343.5	COT34/10-330	A	B	C	D	0.3-3m
	36	350	363.5	COT36/10-350	A	B	C	D	0.3-3m
	38	370	383.5	COT38/10-370	A	B	C	D	0.3-3m
	40	390	403.5	COT40/10-390	A	B	C	D	0.3-3m
	42	410	423.5	COT42/10-410	A	B	C	D	0.3-3m
	44	430	443.5	COT44/10-430	A	B	C	D	0.3-3m
	46	450	463.5	COT46/10-450	A	B	C	D	0.3-3m
	48	470	483.5	COT48/10-470	A	B	C	D	0.3-3m
	50	490	503.5	COT50/10-490	A	B	C	D	0.3-3m
	52	510	523.5	COT52/10-510	A	B	C	D	0.3-3m
	54	530	543.5	COT54/10-530	A	B	C	D	0.3-3m
	56	550	563.5	COT56/10-550	A	B	C	D	0.3-3m
	58	570	583.5	COT58/10-570	A	B	C	D	0.3-3m
	60	590	603.5	COT60/10-590	A	B	C	D	0.3-3m
	62	610	623.5	COT62/10-610	A	B	C	D	0.3-3m
	64	630	643.5	COT64/10-630	A	B	C	D	0.3-3m
	66	650	663.5	COT66/10-650	A	B	C	D	0.3-3m
	68	670	683.5	COT68/10-670	A	B	C	D	0.3-3m
	70	690	703.5	COT70/10-690	A	B	C	D	0.3-3m
20mm (K)	6	100	113.5	COT06/20-100	A	B	C	D	0.3-3m
	8	140	153.5	COT08/20-140	A	B	C	D	0.3-3m
	10	180	193.5	COT10/20-180	A	B	C	D	0.3-3m
	12	220	233.5	COT12/20-220	A	B	C	D	0.3-3m
	14	260	273.5	COT14/20-260	A	B	C	D	0.3-3m
	16	300	313.5	COT16/20-300	A	B	C	D	0.3-3m
	18	340	353.5	COT18/20-340	A	B	C	D	0.3-3m
	20	380	393.5	COT20/20-380	A	B	C	D	0.3-3m
	22	420	433.5	COT22/20-420	A	B	C	D	0.3-3m
	24	460	473.5	COT24/20-460	A	B	C	D	0.3-3m
	26	500	513.5	COT26/20-500	A	B	C	D	0.3-3m
	28	540	553.5	COT28/20-540	A	B	C	D	0.3-3m
	30	580	593.5	COT30/20-580	A	B	C	D	0.3-3m
	32	620	633.5	COT32/20-620	A	B	C	D	0.3-3m
	34	660	673.5	COT34/20-660	A	B	C	D	0.3-3m
	36	700	713.5	COT36/20-700	A	B	C	D	0.3-3m
	38	740	753.5	COT38/20-740	A	B	C	D	0.3-3m
	40	780	793.5	COT40/20-780	A	B	C	D	0.3-3m
	42	820	833.5	COT42/20-820	A	B	C	D	0.3-3m
	44	860	873.5	COT44/20-860	A	B	C	D	0.3-3m
	46	900	913.5	COT46/20-900	A	B	C	D	0.3-3m
	48	940	953.5	COT48/20-940	A	B	C	D	0.3-3m
	50	980	993.5	COT50/20-980	A	B	C	D	0.3-3m
	52	1020	1033.5	COT52/20-1020	A	B	C	D	0.3-3m
	54	1060	1073.5	COT54/20-1060	A	B	C	D	0.3-3m
	56	1100	1113.5	COT56/20-1100	A	B	C	D	0.3-3m
	58	1140	1153.5	COT58/20-1140	A	B	C	D	0.3-3m
	60	1180	1193.5	COT60/20-1180	A	B	C	D	0.3-3m
	62	1220	1233.5	COT62/20-1220	A	B	C	D	0.3-3m
	64	1260	1273.5	COT64/20-1260	A	B	C	D	0.3-3m
	66	1300	1313.5	COT66/20-1300	A	B	C	D	0.3-3m
	68	1340	1353.5	COT68/20-1340	A	B	C	D	0.3-3m
	70	1380	1393.5	COT70/20-1380	A	B	C	D	0.3-3m
	72	1420	1433.5	COT72/20-1420	A	B	C	D	0.3-3m
30mm (K)	4	90	103.5	COT04/30-90	A	B	C	D	0.3-3m
	6	150	163.5	COT06/30-150	A	B	C	D	0.3-3m
	8	210	223.5	COT08/30-210	A	B	C	D	0.3-3m
	10	270	283.5	COT10/30-270	A	B	C	D	0.3-3m
	12	330	343.5	COT12/30-330	A	B	C	D	0.3-3m
	14	390	403.5	COT14/30-390	A	B	C	D	0.3-3m
	16	450	463.5	COT16/30-450	A	B	C	D	0.3-3m
	18	510	523.5	COT18/30-510	A	B	C	D	0.3-3m
	20	570	583.5	COT20/30-570	A	B	C	D	0.3-3m
	22	630	643.5	COT22/30-630	A	B	C	D	0.3-3m
	24	690	703.5	COT24/30-690	A	B	C	D	0.3-3m
	26	750	763.5	COT26/30-750	A	B	C	D	0.3-3m
	28	810	823.5	COT28/30-810	A	B	C	D	0.3-3m
	30	870	883.5	COT30/30-870	A	B	C	D	0.3-3m
	32	930	943.5	COT32/30-930	A	B	C	D	0.3-3m
	34	990	1003.5	COT34/30-990	A	B	C	D	0.3-3m
	36	1050	1063.5	COT36/30-1050	A	B	C	D	0.3-3m
	38	1110	1123.5	COT38/30-1110	A	B	C	D	0.3-3m
	40	1170	1183.5	COT40/30-1170	A	B	C	D	0.3-3m
	42	1230	1243.5	COT42/30-1230	A	B	C	D	0.3-3m
	44	1290	1303.5	COT44/30-1290	A	B	C	D	0.3-3m
	46	1350	1363.5	COT46/30-1350	A	B	C	D	0.3-3m
	48	1410	1423.5	COT48/30-1410	A	B	C	D	0.3-3m
	50	1470	1483.5	COT50/30-1470	A	B	C	D	0.3-3m
	52	1530	1543.5	COT52/30-1530	A	B	C	D	0.3-3m
	54	1590	1603.5	COT54/30-1590	A	B	C	D	0.3-3m
	56	1650	1663.5	COT56/30-1650	A	B	C	D	0.3-3m
	58	1710	1723.5	COT58/30-1710	A	B	C	D	0.3-3m
	60	1770	1783.5	COT60/30-1770	A	B	C	D	0.3-3m
	62	1830	1843.5	COT62/30-1830	A	B	C	D	0.3-3m
	64	1890	1903.5	COT64/30-1890	A	B	C	D	0.3-3m
	66	1950	1963.5	COT66/30-1950	A	B	C	D	0.3-3m
	68	2010	2023.5	COT68/30-2010	A	B	C	D	0.3-3m
	70	2070	2083.5	COT70/30-2070	A	B	C	D	0.3-3m
	72	2130	2143.5	COT72/30-2130	A	B	C	D	0.3-3m

备注：输出方式详见上一页规格说明，特殊规格可另外订做，检测距离达3米-6米需提前说明。
Remarks: Please refer to the specification on the previous page for the output method. Special specifications can be customized separately.
The detection distance of 3-6 meters should be specified in advance.

Dimensions



COT signal output selection (actual output of transistor working normally)

