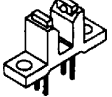
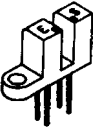
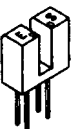
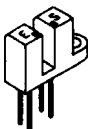
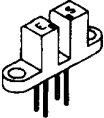

















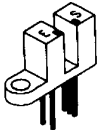
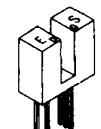
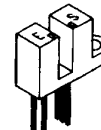
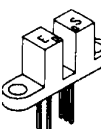
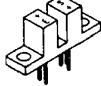
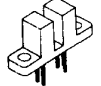
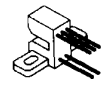

## Beam photoelectric components

Encapsulation form	model	Receiver type	groove width (mm)	Receiving port aperture (LxW)mm	Receiver bright current		Time of rise and fall $\mu$ s	Internal transceiver component model	operating temperature range $^{\circ}$ C	
					least value (mA)	Test conditions @ $I_p$ (mA)				
	HOA0825-001 HOA0825-002 HOA0825-003 HOA0825-004	dynatron	4.2	1.52 dia	0.5	20	15	SEP8506 SDP8406	-40 to 85	
	HOA086... or HOA 087...	dynatron	3.2	0-L51 0-L55 1-L55 2-L55 5-L51 5-L55 6-L55 7-L55	1.52x0.25 1.57x1.27 1.57x1.27 1.57x1.27 1.52x0.25 1.57x1.27 1.57x1.27 1.57x1.27	0.50 0.50 1.00 1.80 0.50 0.50 1.00 1.80	20 20 10 20 20 20 10 20	15	SEP8506 SDP8406	-40 to 85
	HOA086... or HOA 087...	dynatron	3.2	0-N51 0-N55 1-N55 2-N55 5-N51 5-N55 6-N55 7-N55	1.52x0.25 1.57x1.27 1.57x1.27 1.57x1.27 1.52x0.25 1.57x1.27 1.57x1.27 1.57x1.27	0.50 0.50 1.00 1.80 0.50 0.50 1.00 1.80	20 20 10 20 20 20 10 20	15	SEP8506 SDP8406	-40 to 85
	HOA086... or HOA 087...	dynatron	3.2	0-P51 0-P55 1-P55 2-P55 5-P51 5-P55 6-P55 7-P55	1.52x0.25 1.57x1.27 1.57x1.27 1.57x1.27 1.52x0.25 1.57x1.27 1.57x1.27 1.57x1.27	0.50 0.50 1.00 1.80 0.50 0.50 1.00 1.80	20 20 10 20 20 20 10 20	15	SEP8506 SDP8406	-40 to 85
	HOA086... or HOA 087...	dynatron	3.2	0-T51 0-T55 1-T55 2-T55 5-T51 5-T55 6-T55 7-T55	1.52x0.25 1.57x1.27 1.57x1.27 1.57x1.27 1.52x0.25 1.57x1.27 1.57x1.27 1.57x1.27	0.50 0.50 1.00 1.80 0.50 0.50 1.00 1.80	20 20 10 20 20 20 10 20	15	SEP8506 SDP8406	-40 to 85
	HOA1872-001 HOA1872-002 HOA1872-003 HOA1872-011 HOA1872-012 HOA1872-013	dynatron dynatron Darlington dynatron dynatron Darlington	2.5	1.27 dia  1.52 dia	0.30 1.80 4.00 0.30 1.80 4.00	20	15 15 75 15 15 75	SE1450 SD1440 SD1410 SEP8506 SDP8406 SDP8106	-55 to 100  -40 to 85	
	HOA1873-001 HOA1873-002 HOA1873-003 HOA1873-011 HOA1873-012 HOA1873-013	dynatron dynatron Darlington dynatron dynatron Darlington	2.5	1.27 dia  1.52 dia	0.30 1.80 4.00 0.30 1.80 4.00	20	15 15 75 15 15 75	SE1450 SD1440 SD1410 SEP8506 SDP8406 SDP8106	-55 to 100  -40 to 85	
	HOA1874-001 HOA1874-002 HOA1874-003 HOA1874-011 HOA1874-012 HOA1874-013	dynatron dynatron Darlington dynatron dynatron Darlington	3.1	1.27 dia  1.52 dia	0.30 1.80 4.00 0.30 1.80 4.00	20	15 15 75 15 15 75	SE1450 SD1440 SD1410 SEP8506 SDP8406 SDP8106	-55 to 100  -40 to 85	

# Beam photoelectric components

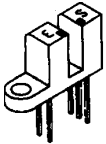
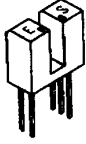
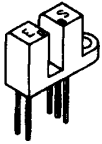
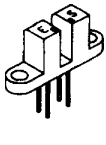

Encapsulation form	model	Receiver type	package width (mm)	Receiving port aperture (LxW) mm	Receiver bright current		Rising and drop-out time $\mu$ s	Internal transistor component model	operating temperature range °C
					least value (mA)	Test conditions @I <sub>f</sub> (mA)			
	HOA1875-001	dynatron	5.1	1.27 dia	0.15	30	15	SE1450	-55 to 100
	HOA1875-002	Darlington transistor			0.60		15	SD1440	
	HOA1875-003	Darlington transistor			1.80		75	SD1410	
	HOA1876-001	dynatron	5.1	1.27 dia	0.15	30	15	SE1450	-55 to 100
	HOA1876-002	Darlington transistor			0.60		15	SD1440	
	HOA1876-003	Darlington transistor			1.80		75	SD1410	
	HOA1877-001	dynatron	9.5	1.27 dia	0.10	30	15	SE1450	-55 to 100
	HOA1877-002	Darlington transistor			0.50		15	SD1440	
	HOA1877-003	Darlington transistor			1.50		75	SD1410	
	HOA1879-011	dynatron	3.2	1.52 dia	0.40	20	15	SEP8506	-40 to 85
	HOA1879-012	dynatron		1.52 dia	1.80		15	SDP8406	
	HOA1879-013	dynatron		1.02x0.25	0.50		15	SDP8406	
	HOA1882-011	dynatron	5.1	1.52 dia	0.30	20	15	SEP8506	-40 to 85
	HOA1882-012	Darlington transistor			1.80		15	SEP8706	
	HOA1882-013	Darlington transistor			4.00		75	SDP8406	
	HOA1883-011	dynatron	3.6	1.52 dia	0.30	20	15	SEP8506	-40 to 85
	HOA1883-012	Darlington transistor			1.80		15	SDP8406	
	HOA1883-013	Darlington transistor			4.00		75	SDP8106	
	HOA1884-011	dynatron	3.2	1.02x0.51	0.30	20	15	SEP8506	-40 to 85
	HOA1884-012	Darlington transistor			1.80		15	SDP8406	
	HOA1884-013	Darlington transistor			4.00		75	SDP8106	
	HOA1885-011	dynatron	5.1	1.52x1.27	0.30	20	15	SEP8506	-40 to 85
	HOA1885-012	Darlington transistor			1.80		15	SDP8406	
	HOA1885-013	Darlington transistor			4.00		75	SDP8106	
	HOA1886-011	dynatron	5.1	1.52x1.27	0.30	20	15	SEP8506	-40 to 85
	HOA1886-012	Darlington transistor			1.80		15	SEP8706	
	HOA1886-013	Darlington transistor			4.00		75	SDP8406	
	HOA1888-011	Darlington transistor	12	1.52x1.52	0.50	20	15		-40 to 85
	HOA1888-012	Darlington transistor			2.00		75		
	HOA1888-013	Darlington transistor							
	HOA2862-001	dynatron	2.5	1.02x0.64	0.20	20	15	SE1450	-55 to 100
	HOA2862-002	Darlington transistor			1.80		15	SD1440	
	HOA2862-003	Darlington transistor			4.00		75	SD1410	
	HOA1889-011	dynatron	1.8	0.5	0.50	20	15	SEP8506	-40 to 85
	HOA1889-013 ( binary channels )	Darlington			2.0		75	SDP8406 SDP8106	

## Photoelectric Schmitt trigger (low hysteresis, typical value 10%)

Encapsulation form	model	Output type	output logic	groove width (mm)	receiving terminal Diameter (LxW) mm	Maximum tripping current (mA)	Time of rise and fall in ns	Internal transistor component model	operating temperature range °C
	HOA0961-L51 HOA0961-L55 HOA0963-L51 HOA0963-L55 HOA0971-L51 HOA0971-L55 HOA0973-L51 HOA0973-L55	10KΩ pull-up resistor	buffer buffer opposition opposition buffer buffer opposition opposition	3.2	1.52x0.25 1.52x1.27 1.52x0.25 1.52x1.2 1.52x0.25 1.52x1.27 1.52x0.25 1.52x1.27	20	60/15	SEP8506 SDP8600	-40 to 70
	HOA0961-N51 HOA0961-N55 HOA0963-N51 HOA0963-N55 HOA0971-N51 HOA0971-N55 HOA0973-N51 HOA0973-N55	10KΩ pull-up resistor	buffer buffer opposition opposition buffer buffer opposition opposition	3.2	1.52x0.25 1.52x1.27 1.52x0.25 1.52x1.2 1.52x0.25 1.52x1.27 1.52x0.25 1.52x1.27	20	60/15	SEP8506 SDP8600	-40 to 70
	HOA0961-P51 HOA0961-P55 HOA0963-P51 HOA0963-P55 HOA0971-P51 HOA0971-P55 HOA0973-P51 HOA0973-P55	10KΩ pull-up resistor	buffer buffer opposition opposition buffer buffer opposition opposition	3.2	1.52x0.25 1.52x1.27 1.52x0.25 1.52x1.2 1.52x0.25 1.52x1.27 1.52x0.25 1.52x1.27	20	60/15	SEP8506 SDP8600	-40 to 70
	HOA0961-T51 HOA0961-T55 HOA0963-T51 HOA0963-T55 HOA0971-T51 HOA0971-T55 HOA0973-T51 HOA0973-T55	10KΩ pull-up resistor	buffer buffer opposition opposition buffer buffer opposition opposition	3.2	1.52x0.25 1.52x1.27 1.52x0.25 1.52x1.2 1.52x0.25 1.52x1.27 1.52x0.25 1.52x1.27	20	60/15	SEP8506 SDP8600	-40 to 70
	HOA2001-001	10KΩ pull-up resistor	buffer	3	1.52 dia	10	60/15	SEP8506 SDP8600	-40 to 70
	HOA2003-001	10KΩ pull-up resistor	buffer	3.2	1.0x0.25	20	60/15	SEP8506 SDP8600	-40 to 70
	HOA2004-001	10KΩ pull-up resistor	buffer	3.2	1.0x0.51	20	60/15	SEP8506 SDP8600	-40 to 70
	HOA2006-001	10KΩ pull-up resistor	buffer	12	1.52x1.52	20	60/15	SEP8506 SDP8600	-40 to 70

Note : HOA096x, HOA2003, HOA2006 are equipped with dustproof infrared light filter, the rest are opaque shell with small hole.

# Photoelectric Schmitt-tert-irradiation assembly (high hysteresis, typical value 50%)

Encapsulation form	model	Output type	output logic (mm)	Ditch width (LxW)	Acceptance end aperture mm	Maximum tripping current (mA)	Time of rise and fall in ns	Internal transceiver component model	operating temperature range °C
	HOA696_ or HOA 697_	0-L51	Push the collector open	buffer	3.2	1.52x0.25	70/70	SEP8506 SDP8xx4	-40 to 70
		1-L51		buffer					
		2-L51	Push the collector open	opposition					
		3-L51		opposition					
		4-L51	10KΩ pull-up resistor	buffer					
		5-L51	10KΩ pull-up resistor	opposition					
		0-L55	push-pull	buffer	3.2	1.52x1.27			
		1-L55	Collective electrode open push-pull	buffer					
		2-L55		opposition					
		3-L55	Electrode open circuit	opposition					
4-L55	10KΩ pull-up resistor	buffer							
5-L55	10KΩ pull-up resistor	opposition							
	HOA696_ or HOA 697_	0-N51	push-pull	buffer	3.2	1.52x0.25	70/70	SEP8506 SDP8xx4	-40 to 70
		1-N51	Collective electrode open push-pull	buffer					
		2-N51		opposition					
		3-N51	Electrode open circuit	opposition					
		4-N51	10KΩ pull-up resistor	buffer					
		5-N51	10KΩ pull-up resistor	opposition					
		0-N55	push-pull	buffer	3.2	1.52x1.27			
		1-N55	Collective electrode open push-pull	buffer					
		2-N55		opposition					
		3-N55	Electrode open circuit	opposition					
4-N55	10KΩ pull-up resistor	buffer							
5-N55	10KΩ pull-up resistor	opposition							
	HOA696_ or HOA 697_	0-P51	push-pull	buffer	3.2	1.52x0.25	70/70	SEP8506 SDP8xx4	-40 to 70
		1-P51	Collective electrode open push-pull	buffer					
		2-P51		opposition					
		3-P51	Electrode open circuit	opposition					
		4-P51	10KΩ pull-up resistor	buffer					
		5-P51	10KΩ pull-up resistor	opposition					
		0-P55	push-pull	buffer	3.2	1.52x1.27			
		1-P55	Collective electrode open push-pull	buffer					
		2-P55		opposition					
		3-P55	Electrode open circuit	opposition					
4-P55	10KΩ pull-up resistor	buffer							
5-P55	10KΩ pull-up resistor	opposition							
	HOA696_ or HOA 697_	0-T51	push-pull	buffer	3.2	1.52x0.25	70/70	SEP8506 SDP8xx4	-40 to 70
		1-T51	Collective electrode open push-pull	buffer					
		2-T51		opposition					
		3-T51	Electrode open circuit	opposition					
		4-T51	10KΩ pull-up resistor	buffer					
		5-T51	10KΩ pull-up resistor	opposition					
		0-T55	push-pull	buffer	3.2	1.52x1.27			
		1-T55	Collective electrode open push-pull	buffer					
		2-T55		opposition					
		3-T55	Electrode open circuit	opposition					
4-T55	10KΩ pull-up resistor	buffer							
5-T55	10KΩ pull-up resistor	opposition							
	HOA7720-M22 HOA7730-M22	push-pull Cathode open circuit	opposition opposition	3	1.78x0.51		70/70	SEP8506 SDP8014 SDP8314	-40 to 70

Note: The HOA696x has a dustproof filter that allows infrared light to pass through, and the rest is a non-transparent shell with a small hole.

## 深圳市杰晟兴电子有限公司 JM Components Limited

地址：深圳市福田区中航路7号鼎诚国际大厦南座2007室  
手机：13662266995 马少良 电话：0755-83951311  
官网：cn-sensor.com

邮编：518031  
传真：0755-83952401  
电邮：jackson@jmcomponents.com