

PHOTOINTERRUPTERS <Transmissive type>

◆ OPIC type with 3-pin connector terminal

(Ta=25°C)

Type	Model No.	Internal connection diagram	Features	Detecting and emitting gap (mm)	Slit width or resolution (mm)	Electrical characteristics					
						Supply voltage Vcc (V)		Low level output voltage			
						MIN.	MAX.	VOL (V) MAX.	Light cut-off	IOL (mA)	VCC (V)
OPIC	GP1A05A		Either-side mounting type*1	5.0	0.5	4.5	5.5	0.35	No	16	5
	GP1A05A2		Either-side mounting type*1	5.0	0.5	4.5	5.5	0.35	No	16	5
	GP1A23LC		Either-side mounting type*1	5.0	0.5	4.5	5.5	0.35	No	16	5
	GP1A05A5		Either-side mounting type*1	5.0	0.5	4.5	5.5	0.35	No	16	5
	GP1A34LC		Snap-in mounting type	5.0	0.5	4.5	5.5	0.4	No	2.5	5
	GP1A73A/ GP1A73A1		Compact snap-in mounting type	5.0	0.5	4.5	5.5	0.35	No	4	5
	GP1A74A/ GP1A74A1			5.0	0.5	4.5	5.5	0.35	No	4	5
	GP1A75E		Either-side mounting type*1	5.0	0.5	4.5	5.5	0.35	No	16	5
	GP1A21		Snap-in mounting type	5.0	0.5	4.5	5.5	0.35	No	16	5
	GP1AQ36L		High temperature operating type	5.0	0.5	4.5	5.5	0.35	No	16	5
	GP1A05E		Either-side mounting type*1	5.0	0.5	4.5	5.5	0.4	Yes	16	5
	GP1A05E2			5.0	0.5	4.5	5.5	0.4	Yes	16	5
	GP1A10		24V lines, both-side mounting type*1	5.0	0.5	21	26	0.6	No	16	24
	GP1A26LC			5.0	0.5	21	26	0.6	No	16	24

* Topr: -20 to +75°C (GP1A10, GP1A26LC: -20 to +80°C, GP1AQ36L: -25 to +90°C)

*1 Screw mounting type

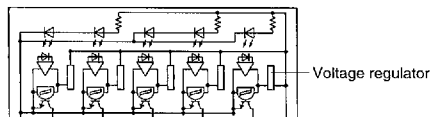
◆ Multi-channel OPIC type with connector terminal

(Ta=25°C)

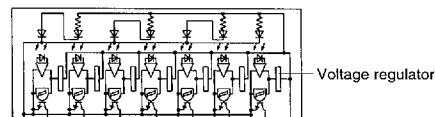
Type	Model No.	Internal connection diagram	Features	Detecting and emitting gap (mm)	Slit width or resolution gap (mm)	Electrical characteristics					
						Supply voltage Vcc (V)		Low level output voltage			
						MIN.	MAX.	VOL (V) MAX.	Light cut-off	IOL (mA)	VCC (V)
OPIC	GP1A38L5	(Following diagram)	5-channel type with connector	8.0	0.5	4.5	5.5	0.35	No	16	5
	GP1A38L7	(Following diagram)	7-channel type with connector	8.0	0.6	4.5	5.5	0.35	No	16	5

* Topr: -20 to +75°C

(Internal connection diagram of GP1A38L5)



(Internal connection diagram of GP1A38L7)



◆ OPIC type with actuator and 3-pin connector terminal

(Ta=25°C)

Type	Model No.	Internal connection diagram	Features	Absolute maximum ratings		Electro-mechanical characteristics	Electrical characteristics**										
				Supply voltage Vcc (V)	Output current Io (mA)		Actuator lever starting torque MAX.	Light beam uninterrupted					Light beam interrupted				
								Dissipation current		Low level output voltage			Dissipation current		High level output voltage		
							IcCL (mA)	Vcc (V)	VOL (V)	Vcc (V)	IoL (mA)	IcCH (mA)	Vcc (V)	VOH (V)	Vcc (V)	RL (kΩ)	
OPIC	GP1A44E1		• Spring lever type actuator • United with connector	10	50	1 x 10 ⁻⁴ N•m	20 MAX.	5	0.4 MAX.	5	16	20 MAX.	5	Vccx 0.9 MIN.	5	47	

* Topr: -20 to +75°C

*1 Operating voltage: 4.5 to 5.5V

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http://www.sharp.co.jp/ecg/

Notice

In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.

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