

PHOTOINTERRUPTER



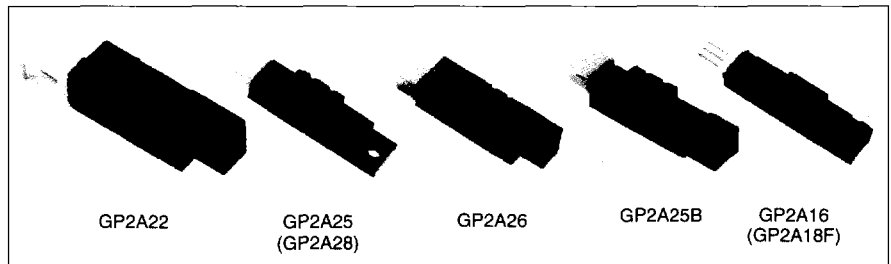
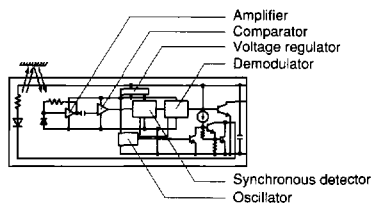
☆ New product

■ PHOTOINTERRUPTERS <Reflective type> (1) (*OPIC* (Optical IC) is trademark of the SHARP Corporation. An OPIC consists of a light-detecting element and signal-processing circuit integrated onto a single chip (Ta=25°C)

Type	Model No.	Internal connection diagram	Features	Optimum detecting distance (mm)	Electro-optical characteristics					
					Supply voltage V _{CC} (V)		Dissipation current I _{CC} (mA)		Low level output voltage V _{OL} (V)	
					MIN.	MAX.	MAX.	V _{CC} (V)	MAX.	V _{CC} (V)
OPIC	GP2A22	(Following diagram)	Multi types of paper detectable, light modulation type, with connector, sensitivity adjusted	9 to 15	4.75	5.25	30*	5	0.4	5
	GP2A25		Multi types of paper detectable, light modulation type, with connector, sensitivity adjusted	3 to 7	4.75	5.25	30*	5	0.4	5
	GP2A26		Multi types of paper detectable, light modulation type, with connector, sensitivity adjusted	3 to 7	4.75	5.25	30*	5	0.4	5
	GP2A25B		Multi types of paper detectable, light modulation type, with connector, sensitivity adjusted	3 to 7	4.75	5.25	30*	5	0.4	5
	GP2A28		Multi types of paper detectable, light modulation type, with connector, sensitivity adjusted, detecting portion with flat configuration	3 to 7	4.75	5.25	30*	5	0.4	5
Hybrid type	GP2A16		Long focal distance, visible light cut-off type, with connector, sensitivity adjusted	2 to 7	4.5	5.5	50	5	0.4	5
	GP2A18F		Long focal distance, visible light cut-off type, connector included, sensitivity adjusted	4 to 5	4.5	5.5	50	5	0.4	5

* Topr: -10 to +60°C (GP2A22, GP2A25B) * Smoothing value R_L = ∞

(Internal connection diagram of GP2A22, GP2A25, GP2A26, GP2A25B and GP2A28)



■ PHOTOINTERRUPTERS <Reflective type> (2)

(Ta=25°C)

Type	Model No.	Internal connection diagram	Features	Focal distance (mm)	Electro-optical characteristics							
					Current transfer ratio			Response time				
					CTR (%) MIN.	I _F (mA)	V _{CE} (V)	t _r (μs) TYP.	I _C (mA)	R _L (Ω)	V _{CE} (V)	
Single phototransistor output	GP2S01*1		High speed detection	3	1	20	5	30	0.2	1 000	2	
	GP2S03		Compact, visible light cut-off	4	0.8	20	5	30	0.2	1 000	2	
	GP2S09		Subminiature (DIP), long lead, visible light cut-off	0.7	0.5	4	2	20	0.1	1 000	2	
	GP2S22		Compact ø4, visible light cut-off	0.7	0.5	4	2	20	0.1	1 000	2	
	GP2S24		Subminiature (DIP), visible light cut-off	0.7	0.5	4	2	20	0.1	1 000	2	
	GP2S26		Subminiature (flat package), visible light cut-off	0.7	0.5	4	2	20	0.1	1 000	2	
	GP2S27		Subminiature, allow reflow soldering, visible light cut-off	0.7	0.5	4	2	20	0.1	1 000	2	
	GP2S28		Long focal distance, compact, snap-in mounting	6	(0.2)	20	5	20	0.1	100	2	
	☆GP2S29		Long focal distance (with prism system), subminiature, screw mounting type	1 to 20	*3	0.5	20	5	38	0.5	1 000	2
	GP2S30		Compact sensitivity adjusted	5	V _{OH} 3V TYP.	—	V _{CC} = 5V	MAX. 170 Hz	—	—	V _{CC} = 5V	
GP2S40		Subminiature, long focal distance type, visible light cut-off	3	2.5	20	5	50	0.1	1 000	2		
Darlington photo-transistor output	GP2L01*1		High sensitivity	3	30	10	2	80	10	100	2	
	GP2L09		Subminiature (DIP), long lead, visible light cut-off	0.7	12.5	4	2	80	10	100	2	
	GP2L22		Compact ø4, visible light cut-off	0.7	12.5	4	2	80	10	100	2	
	GP2L24		Subminiature (DIP), visible light cut-off	0.7	12.5	4	2	80	10	100	2	
	GP2L26		Subminiature (flat package), visible light cut-off	0.7	12.5	4	2	80	10	100	2	
	GP2L20 (L, R)			Prism system conformable type, DAT type-end detection	—	5	20	5	80	2	100	2
	GP2L23 (L, R)		Prism system conformable type, DAT tape-end detection	—	4	20	5	80	10	100	2	

* Topr: -25 to +85°C

*1 Visible light cut-off filter built-in type (F-type) is also available.

*2 Response frequency

*3 Detection area

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.