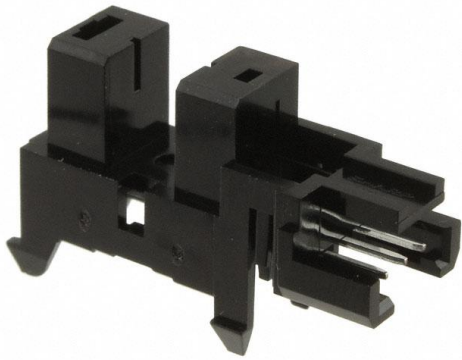


GP1A173LCS2F Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	GP1A173LCS2F-DG
Manufacturer	Sharp Microelectronics
Manufacturer Product Number	GP1A173LCS2F
Description	SENSOR OPTICAL 5MM SLOT W/CONN
Detailed Description	Optical Sensor Through-Beam 0.197" (5mm)

This model GP1A173LCS2F is available at DiGi Electronics.

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We welcome your inquiries regarding pricing, lead time, or other product-related questions.

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Purchase and inquiry

Manufacturer Product Number:

GP1A173LCS2F

Series:

GP1A173

Sensing Distance:

0.197" (5mm)

Output Configuration:

OPIC

Voltage - Supply:

4.5V ~ 5.5V

Operating Temperature:

-30°C ~ 95°C (TA)

Manufacturer:

Sharp Microelectronics

Product Status:

Obsolete

Sensing Method:

Through-Beam

Mounting Type:

Snap-In

Response Time:

166µs

Package / Case:

-

Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

HTSUS:

8541.49.8000

ECCN:

EAR99

Photointerrupter with Connector

GP1A173LCS2F/GP1S173LCS2F

Features

- Employs connector-united case and connector pin-united frame.
Low cost by part reduction
- High operating temperature (-30 to +95 °C)
Extending area to mount photointerrupter under high/low temperature condition in copier & LBP.
- High reliability of connection improved by combined case & connector as one part.
- Mechanical installation is compatible with conventional models. (GP1A73/GP1S73 series)

Main Specifications

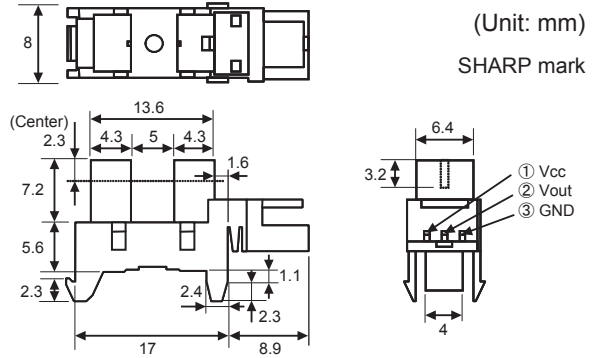
OPIC output type 【GP1A173LCS2F】

Parameter	Symbol	Characteristics
Operating supply voltage	V _{CC}	4.5 to 5.5 V
Low level supply current	I _{CCL}	MAX. 16.5 mA
Low level output voltage	V _{OL}	MAX. 0.35 V
High level supply current	I _{CCH}	MAX. 16.5 mA
High level output voltage	V _{OH}	MIN. V _{CC} × 0.9 V
Response characteristics	MIN. interruption time	t _H MIN. 166 μs
	MIN. sensing time	t _L MIN. 166 μs
Operating temperature	T _{opr}	-30 to +95 °C

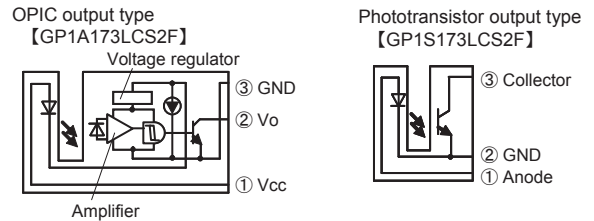
Phototransistor output type 【GP1S173LCS2F】

Parameter	Symbol	Characteristics
Forward voltage	V _F	1.2 to 1.4 V
Peak forward voltage	V _{FM}	TYP. 3 V
Reverse voltage	I _R	MAX. 10 mA
Dark current	I _{CEO}	MAX. 100 nA
Collector current	I _c	MIN. 0.5 mA
Collector-emitter voltage	V _{CE (sat)}	MAX. 0.4 V
Response characteristics	Rise time	t _r MAX. 15 μs
	Fall time	t _f MAX. 20 μs
Operating temperature	T _{opr}	-30 to +95 °C

Outline Dimensions

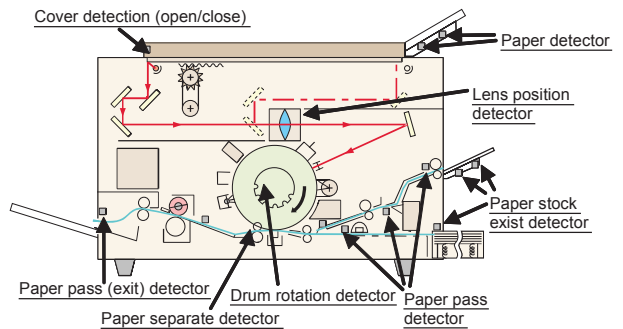


Internal Connection Diagram



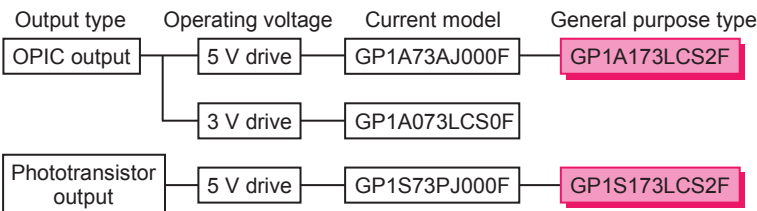
Application

- Example used in copier



Lineup

- Transmissive type photointerrupter with connector



■ : New product

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Applications

- Copier, Laser beam printer

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