



Product Change Notification

■ Purpose

[2022-10-03] Sharp Corporation would like to notify customers of an update to the schedule of a previously announced PCN (Feb. 21, 2022) regarding change of signal processing IC used in the following Sharp distance measuring sensor models. Sharp will be applying this running change in production from April, 2023.

There is no change to the device shape, terminal layout, characteristics, or reliability.

For some models, besides the signal processing IC change, there will be further changes such as resistor, capacitor, thermistor and lead frame changes.

The affected distance measuring sensor (DMS) models include:

- GP2Y0A02YK0F
- GP2Y0A21YK0F
- GP2Y0A41SK0F
- GP2Y0A51SK0F
- GP2Y0AF15X
- GP2Y0D02YK0F
- GP2Y0D21YK0F

■ Effective Time of Change

These are running changes that will be applied starting in April, 2023.

■ Details

Please refer to the pages that follow for more details concerning the changes.

If you have any questions concerning this notification, please contact your Socle representatives at: Socle_Sales_NA@socle-tech.com

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Issue No. ST-EDO2209B

SHARP Products Change Notification

Sharp Semiconductor Innovation Corporation

Thank you very much for your continuous usage
of our semiconductor device products.
We would like to inform the change of Distance measuring sensor as follows.

Planning and
Engineering Div.



S.Kouchi

Development
Div. 1



T.Okuda

Subject	<u>Notification of the Change of distance sensor signal processing IC manufacturing subcontractor</u>
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Applicable Product Category	Distance measuring sensor (26 model)
Changed From	Running change is scheduled for April 2023 onward. ※ Depending on the sales situation, the schedule may change.

With regard to the distance measurement sensor shown in the attachment,
we are unable to procure supply of on-board distance measurement signal processing IC hereafter
due to the suspension of operations at the manufacturing plant.

Therefore, in order to continue to supply the distance measuring sensors,
we will gradually switch the signal processing IC to one with the same function
manufactured by another manufacturing factory. Thank you for your understanding.

1. Applicable Models

Refer to the attachment

2. Contents of Change

Change of the distance measuring sensor signal processing IC

Maker before change S company Manufacturing factory: ON Semiconductor Niigata

Maker after change S company Manufacturing factory: UMC

In addition to the above changes, the resistance (R) and the capacitor (C)
as well as the thermistor and lead frame for some models will also be
changed due to the change in signal processing IC in the distance measuring sensor.

3. Reason for Change

To continue the supply of distance measuring sensors.

There are no changes to product shape, terminal layout, product characteristics, and reliability.

測距用信号処理IC変更スケジュール/Schedule of distance measuring sensor signal processing IC change

系列/Series	タイプ/Type	社外品番/ Applicable Model No.	社内品番/ Internal Model No.	参考仕様書 Reference specification	納入仕様書 Delivery specification	4 M資料 4M report	EVT sample (出荷 /Shipment)	特性データ Characteristic data	信頼性データ Reliability data	環境資料 Environmental doc.	サンプル2 sample2 (出荷 /Shipment)	ユーザー承認 User approval	倉入れ Warehousing	
GP2Y系列	アナログ出力 Analog output	GP2Y0A02YK0F	GP2Y0A02YKF4	10/14	12/19	10/14	10/14	10/14	12/19	12/26	12/19	2023/2/15	2023/4月	
		GP2Y0A21YK1F	GP2Y0A21YK16	10/14	12/19	10/14	10/14	10/14	12/19	12/26	12/19	2023/2/15	2023/4月	
		GP2Y0A21YK0F	GP2Y0A21YKF4	10/14	12/19	10/14	10/14	10/14	12/19	12/26	12/19	2023/2/15	2023/4月	
		GP2Y0A51SK0F	GP2Y0A51SK04	10/3	12/19	10/3	10/3	10/3	12/19	12/26	12/19	2023/2/15	2023/4月	
		GP2Y0A41SK0F	GP2Y0A41SKF4	10/14	12/19	10/14	10/14	10/14	12/19	12/26	12/19	2023/2/15	2023/4月	
		GP2Y0A02YK1F	GP2Y0A02YKF4	10/28	12/19	10/28	10/28	10/28	12/19	12/26	12/19	2023/2/15	2023/4月	
	デジタル出力 Digital output (1bit)	GP2Y0D02YK0F	GP2Y0D02YKF4	10/21	12/19	10/21	10/21	10/21	10/21	12/19	12/26	12/19	2023/2/15	2023/4月
		GP2Y0D21YK0F	GP2Y0D21YKF4	10/21	12/19	10/21	10/21	10/21	10/21	12/19	12/26	12/19	2023/2/15	2023/4月
		GP2Y0D417KBF	GP2Y0D417KB4	10/21	12/19	10/21	10/21	10/21	10/21	12/19	12/26	12/19	2023/2/15	2023/4月
		GP3Y系列	デジタル出力 Digital output (1bit)	GP3Y0D013K	GP3Y0D013K26	10/21	12/19	10/21	10/21	10/21	12/19	12/26	12/19	2023/2/15
GP3Y0D026K0F	GP3Y0D026K06	11/11		12/19	11/11	11/11	11/11	12/19	12/26	12/19	2023/2/15	2023/4月		
GP3Y0D026KAF	GP3Y0D026KA6	-		12/19	11/11	-	11/11	12/19	12/26	*	2023/2/15	2023/4月		
GP3Y0D031K0F	GP3Y0D031K06	11/11		12/19	11/11	11/11	11/11	12/19	12/26	12/19	2023/2/15	2023/4月		
GP3Y0D032K0F	GP3Y0D032K06	10/28		12/19	10/28	10/28	10/28	12/19	12/26	12/19	2023/2/15	2023/4月		
GP3Y0D033K0F	GP3Y0D033K06	10/28		12/19	10/28	10/28	10/28	12/19	12/26	12/19	2023/2/15	2023/4月		
GP3Y0D418K0F	GP3Y0D418K04	10/3		12/19	10/3	10/3	10/3	12/19	12/26	12/19	2023/2/15	2023/4月		
GP2Y0AF系列 /Series (小型測距 /Small type)	アナログ出力 Analog output	GP2Y0AF15R	GP2Y0AF15R04	-	*	10/7	-	10/7	12/19	12/26	*	2023/2/15	2023/4月	
		GP2Y0AF15X	GP2Y0AF15X04	10/7	12/19	10/7	10/7	10/7	12/19	12/26	12/19	2023/2/15	2023/4月	
		GP2Y0AF15XR	GP2Y0AF15XR4	-	11/25	11/25	-	11/25	11/25	12/26	11/25	2023/2/15	2023/4月	
		GP2Y0AF15Q	GP2Y0AF15Q04	10/7	12/19	10/7	10/7	10/7	12/19	12/26	12/19	2023/2/15	2023/4月	
		GP2Y0AF15Y	GP2Y0AF15Y04	10/7	12/19	10/7	10/7	10/7	12/19	12/26	12/19	2023/2/15	2023/4月	
		GP2Y0AF15YS	GP2Y0AF15YS4	10/7	12/19	10/7	10/7	10/7	12/19	12/26	12/19	2023/2/15	2023/4月	
		GP2Y0AF30Q	GP2Y0AF30Q04	-	*	10/7	-	10/7	12/19	12/26	*	2023/2/15	2023/4月	
		GP2Y0AF30R	GP2Y0AF30R04	10/7	12/19	10/7	10/7	10/7	12/19	12/26	12/19	2023/2/15	2023/4月	
		GP2Y0AF30S	GP2Y0AF30S04	10/7	12/19	10/7	10/7	10/7	10/7	12/19	12/26	12/19	2023/2/15	2023/4月
		GP2Y0AF30Y	GP2Y0AF30Y04	10/7	12/19	10/7	10/7	10/7	10/7	12/19	12/26	12/19	2023/2/15	2023/4月

※ユーザー殿と協議の上、サンプルを準備 / Need to discuss the sample preparation with customers.

測距センサ 4M変更点について/Distance measuring sensor 4M change

各製品別の4M変更点は以下となります。/4M changes in each product are as follows.

○：変更あり/Change

R:抵抗/Resistor、C:コンデンサ/Capacitor、P:基板/Board (パターン変更/Layout pattern change)

-：変更なし/No change

IC:測距信号処理IC/Distance sensor signal processing IC、T:サーミスタ/Thermistor、LF:リードフレーム/Lead frame

系列/Series	タイプ/Type	社外品番/ Applicable Model	社内品番/ Internal Model No.	Machine(設備)	Material(材料)	Method(方法)	Man(人)
GP2Y系列 /Series	アナログ出力 Analog output	GP2Y0A21YK1F	GP2Y0A21YK16	-	○ IC、R、C、P	-	-
		GP2Y0A21YK0F	GP2Y0A21YKF4	-	○ IC、R、C、P	-	-
		GP2Y0A02YK0F	GP2Y0A02YKF4	-	○ IC、R、C、P	-	-
		GP2Y0A51SK0F	GP2Y0A51SK04	-	○ IC、R、C、P	-	-
		GP2Y0A41SK0F	GP2Y0A41SKF4	-	○ IC、R、C、P	-	-
		GP2Y0A02YK1F	GP2Y0A02YK14	-	○ IC、R、C、P、T	-	-
	デジタル出力 Digital output (1bit)	GP2Y0D02YK0F	GP2Y0D02YKF4	-	○ IC、R、C、P	-	-
		GP2Y0D21YK0F	GP2Y0D21YKF4	-	○ IC、R、C、P	-	-
		GP2Y0D417KBF	GP2Y0D417KB4	-	○ IC、R、C、P	-	-
	GP3Y系列 /Series	デジタル出力 Digital output (1bit)	GP3Y0D013K	GP3Y0D013K26	-	○ IC、R、C、P	-
GP3Y0D026K0F			GP3Y0D026K06	-	○ IC、R、C、P、T	-	-
GP3Y0D026KAF			GP3Y0D026KA6	-	○ IC、R、C、P、T	-	-
GP3Y0D031K0F			GP3Y0D031K06	-	○ IC、R、C、P、T	-	-
GP3Y0D032K0F			GP3Y0D032K06	-	○ IC、R、C、P、T	-	-
GP3Y0D033K0F			GP3Y0D033K06	-	○ IC、R、C、P、T	-	-
GP3Y0D418K0F			GP3Y0D418K04	-	○ IC、R、C、P	-	-
GP2Y0AF系列 /Series (小型測距 /Small type)	アナログ出力 Analog output	GP2Y0AF15R	GP2Y0AF15R04	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF15X	GP2Y0AF15X04	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF15XR	GP2Y0AF15XR4	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF15Q	GP2Y0AF15Q04	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF15Y	GP2Y0AF15Y04	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF15Y	GP2Y0AF15YS4	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF30Q	GP2Y0AF30Q04	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF30R	GP2Y0AF30R04	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF30S	GP2Y0AF30S04	-	○ IC、R、C、P、LF	-	-
		GP2Y0AF30Y	GP2Y0AF30Y04	-	○ IC、R、C、P、LF	-	-

SHARP測距センサ 材料変更に関する比較表

Comparison sheet related on material change for SHARP Distance sensor

【適応機種/Applicable Model】 全機種/ALL models (3ページ参照/Refer to page 3)

シャープセミコンダクターイノベーション株式会社

Sharp Semiconductor Innovation Corporation

		変更前/Before Change	変更後/After Change
社外品番/Applicable Model No.		全機種/All models (Same)	
社内品番/SHARP Internal Model No.		添付リスト参照/Refer to attached list	変更予定/Will be changed
Country of Origin / Manufacturing Location		中国/珠海縁成電子 China / Zhuhai Ensei Electronics Co., Ltd. (Same)	
材料/ Materials	信号処理IC /Signal processing IC	工場/Factory On Semiconductor	UMC
		IC仕様 /IC Spec. →	端子配置・機能変更有り /Pin assign・Function changed
		開発・ベンダー / Design・Vendor	S company (同一/Same)
	基板/Board	→	ICに合わせた配線パターン変更 /Layout pattern changed to fit new IC
	抵抗/Resistor	→	ICに合わせた定数変更・使用数変更 /Constant value and use number changed to fit new IC
	コンデンサ/Capacitor	→	ICに合わせた定数変更・使用数変更 /Constant value and use number changed to fit new IC
	サーミスタ/Thermistor	→	ICに合わせた定数変更 /Constant value changed to fit new IC (一部機種のみ / Only some models)
	リードフレーム/Lead frame	→	ICに合わせたフレーム変更 / Frame changed to fit new IC (一部機種のみ / Only some models)
	断面図/Cross section (参考/Reference)		
	その他部材(LED, PSD, Lens付きモールドケース等) /The other materials(LED, PSD, Lens mold case, etc.)	同一/Same	
電気的特性 / Electronic spec. (絶対最大定格含む/ Including absolute maximum rating.)	同一/Same		
QC工程 / QC process	同一/Same		
製品信頼性 / Product Reliability	同一/Same		
外形図/ Outline Dimension	同一/Same		
マーク/ Marking	→	末尾に識別マーク付加 / Discrimination mark will be added at the end	
梱包仕様 / Package spec	同一/Same		