

Engineering Change Notification

SOOF-M-...-P

Product update – IO-Link

FESTO



Engineering Change Notification

Project Nr
228238

Project Title
Product update
IO-Link

Date
May 12th, 2021

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Reason of change

General product improvement with high backwards compatibility.
Significant reduction of variants. NPN-Versions are no longer needed.
Higher overall performance via IO-Link V 1.1 with four operating modes.

Technical changes

The new version of the fork sensors SOOF-M are better in terms of switching frequency, repeat accuracy, hysteresis and smaller objects detected. Additionally a lot of new functions like diagnosis, identification, and four modes of operation are available via IO-Link.

The standard mode of operation (default setting) covers the function of the previous generation. High resolution, power and speed mode can improve the detection in more demanding applications.

The push-pull (default) switching output works perfectly as PNP (normally open) and NPN (normally closed) without any extra adjustment. A potentiometer allows to change NO/NC even without using IO-Link.

If there is a need to change to a real PNP or NPN (open collector) or make use of all the additional features, it can be done via IO-Link (for example by using the PN 8091509 CDSU-1 IO-Link Master USB)

| Important features Example: SOOF-M-FL-SM-C50-P | Previous Version | Future Version |
|--|-------------------------|---|
| Minimal object diameter | 0,5 mm | 0,3 mm (standard mode) 0,2 mm (high resolution mode) |
| Repetition accuracy | 0,04 mm | 0,02 mm |
| Switch output | PNP | Push Pull (default), PNP, NPN |
| Hysteresis | $\leq 0,25$ mm | $\leq 0,10$ mm |
| Max. switching frequency | 4000 Hz | 5000 Hz (standard mode) 8000 Hz (speed mode mode) |
| Max. output current | 200 mA | 100 mA |
| Operating voltage range DC | 10 ... 35 V | 10 ... 30 V |
| Ambient temperature | -10 ... 60 °C | -25 ... 60 °C |

Known technical implications

- **Function**

Improved function with high backwards compatibility.
Reduction of max. output current from 200 mA to 100 mA.
Reduction of operating voltage range (up to 30 VDC only).

- **Environment**

Not known implications.

- **Interfacing**

The dimensions as well as holes pattern remain unchanged.

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Affected products

| Part No | Type |
|---------|---------------------|
| 553553 | SOOF-M-FL-SM-C30-P |
| 553555 | SOOF-M-FL-SM-C50-P |
| 553557 | SOOF-M-FL-SM-C80-P |
| 553559 | SOOF-M-FL-SM-C120-P |

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Estimated transition date

Date
12. May 2021

The change was productive starting with production lots in

April 2021

Furthermore the new version of the sensors with IO-Link will be delivered after the stock of the old versions is depleted.

The new versions can be recognized via to the IO-Link logo on the packaging and product label.

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Release

Esslingen – Germany, May 12th, 2021

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|---|---|
|  |  |
| Development Sensors & Cables | Corporate Quality |
| Florian Welker <i>Head of Product Line Sensors & Cables</i> | Ralph Frank <i>Head of Corporate Quality Complaint Management</i> |