M8 Non-Flush All-Metal Inductive Proximity Sensors 2–3.5 mm



M8 non-flush all-metal inductive proximity sensors. Rated sensing distances 2 / 3.5 mm; NPN, PNP, DC 2-wire outputs; 2 m cable, M8 connector, M12 connector. 76 part numbers, each a fixed SEGMENsensor order code.

Sensing distance **2–3.5 mm** Outputs **NPN • PNP • DC 2-wire**

Connection **2 m cable • M8 connector • M12 connector**

Part numbers **76**

Key facts

- Rated sensing distances: 2 / 3.5 mm.
- Supply: 10–30 V DC, 10–60 V DC.
- Outputs: NPN, PNP, DC 2-wire.
- Connections: 2 m cable (28), M8 connector (28), M12 connector (20). Housing: Stainless steel. 24 models are short or extra-short housing versions.
- Qualification samples of 1–5 pcs ship in 5–7 days; production is planned around your annual volume.

Family data

Housing	M8 thread, Stainless steel
Mounting	Non-flush (non-embeddable)
Rated sensing distance	2 / 3.5 mm
Outputs	NPN, PNP, DC 2-wire
Supply	10–30 V DC, 10–60 V DC
Connection	2 m cable, M8 connector, M12 connector
Housing length	Standard, Short (K)
Targets	All metals, Ferrous only (FE), Non-ferrous only (NF)
Sensing face	Stainless steel
Other electrical data	Per part-number datasheet, sent with the quotation

Reading the part number

SGI-FM08U-035PA-C2-K

SGI SEGMENsensor inductive

FM All-metal series (stainless steel sensing face)

08 · U M8 non-flush (S = flush)

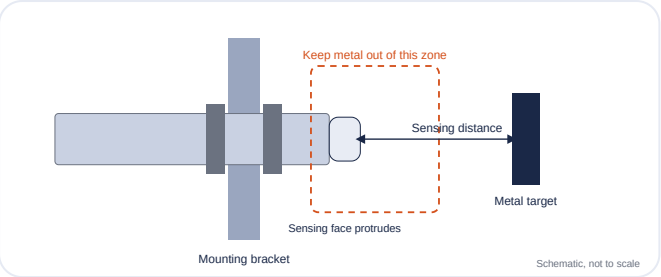
035 Sensing distance in 0.1 mm: 3.5 mm

P · A PNP • NO (N = NPN, P = PNP, D = DC 2-wire, J = AC 2-wire, U = AC/DC; A = NO, B = NC, C = NO + NC)

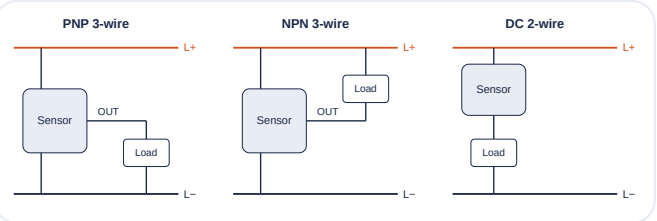
C2 C2 = 2 m cable, Q3 = M8 connector, Q4 = M12 connector

K K = short housing; FE = ferrous metals only; NF / NE = non-ferrous metals only

Mounting



Wiring



All part numbers

Part number	Sensing distance	Output	Supply	Connection	Housing	Length	Targets
SGI-FM08U-020NA-C2-K	2 mm	NPN NO	10–30 V DC	2 m cable	Stainless steel	Short (K)	All metals
SGI-FM08U-020NA-C2	2 mm	NPN NO	10–30 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM08U-020NA-Q3-K	2 mm	NPN NO	10–30 V DC	M8 connector	Stainless steel	Short (K)	All metals
SGI-FM08U-020NA-Q3	2 mm	NPN NO	10–30 V DC	M8 connector	Stainless steel	Standard	All metals
SGI-FM08U-020NA-Q4-K	2 mm	NPN NO	10–30 V DC	M12 connector	Stainless steel	Short (K)	All metals
SGI-FM08U-020NA-Q4	2 mm	NPN NO	10–30 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM08U-020NA-C2-FE	2 mm	NPN NO	10–30 V DC	2 m cable	Stainless steel	Standard	Ferrous only (FE)
SGI-FM08U-020NA-Q3-FE	2 mm	NPN NO	10–30 V DC	M8 connector	Stainless steel	Standard	Ferrous only (FE)
SGI-FM08U-020NA-C2-NF	2 mm	NPN NO	10–30 V DC	2 m cable	Stainless steel	Standard	Non-ferrous only (NF)
SGI-FM08U-020NA-Q3-NF	2 mm	NPN NO	10–30 V DC	M8 connector	Stainless steel	Standard	Non-ferrous only (NF)
SGI-FM08U-020NB-C2-K	2 mm	NPN NC	10–30 V DC	2 m cable	Stainless steel	Short (K)	All metals
SGI-FM08U-020NB-C2	2 mm	NPN NC	10–30 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM08U-020NB-Q3-K	2 mm	NPN NC	10–30 V DC	M8 connector	Stainless steel	Short (K)	All metals
SGI-FM08U-020NB-Q3	2 mm	NPN NC	10–30 V DC	M8 connector	Stainless steel	Standard	All metals
SGI-FM08U-020NB-Q4-K	2 mm	NPN NC	10–30 V DC	M12 connector	Stainless steel	Short (K)	All metals
SGI-FM08U-020NB-Q4	2 mm	NPN NC	10–30 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM08U-020NB-C2-FE	2 mm	NPN NC	10–30 V DC	2 m cable	Stainless steel	Standard	Ferrous only (FE)

Part number	Sensing distance	Output	Supply	Connection	Housing	Length	Targets
SGI-FM08U-020NB-Q3-FE	2 mm	NPN NC	10–30 V DC	M8 connector	Stainless steel	Standard	Ferrous only (FE)
SGI-FM08U-020NB-C2-NF	2 mm	NPN NC	10–30 V DC	2 m cable	Stainless steel	Standard	Non-ferrous only (NF)
SGI-FM08U-020NB-Q3-NF	2 mm	NPN NC	10–30 V DC	M8 connector	Stainless steel	Standard	Non-ferrous only (NF)
SGI-FM08U-020PA-C2-K	2 mm	PNP NO	10–30 V DC	2 m cable	Stainless steel	Short (K)	All metals
SGI-FM08U-020PA-C2	2 mm	PNP NO	10–30 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM08U-020PA-Q3-K	2 mm	PNP NO	10–30 V DC	M8 connector	Stainless steel	Short (K)	All metals
SGI-FM08U-020PA-Q3	2 mm	PNP NO	10–30 V DC	M8 connector	Stainless steel	Standard	All metals
SGI-FM08U-020PA-Q4-K	2 mm	PNP NO	10–30 V DC	M12 connector	Stainless steel	Short (K)	All metals
SGI-FM08U-020PA-Q4	2 mm	PNP NO	10–30 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM08U-020PA-C2-FE	2 mm	PNP NO	10–30 V DC	2 m cable	Stainless steel	Standard	Ferrous only (FE)
SGI-FM08U-020PA-Q3-FE	2 mm	PNP NO	10–30 V DC	M8 connector	Stainless steel	Standard	Ferrous only (FE)
SGI-FM08U-020PA-C2-NF	2 mm	PNP NO	10–30 V DC	2 m cable	Stainless steel	Standard	Non-ferrous only (NF)
SGI-FM08U-020PA-Q3-NF	2 mm	PNP NO	10–30 V DC	M8 connector	Stainless steel	Standard	Non-ferrous only (NF)
SGI-FM08U-020PB-C2-K	2 mm	PNP NC	10–30 V DC	2 m cable	Stainless steel	Short (K)	All metals
SGI-FM08U-020PB-C2	2 mm	PNP NC	10–30 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM08U-020PB-Q3-K	2 mm	PNP NC	10–30 V DC	M8 connector	Stainless steel	Short (K)	All metals
SGI-FM08U-020PB-Q3	2 mm	PNP NC	10–30 V DC	M8 connector	Stainless steel	Standard	All metals
SGI-FM08U-020PB-Q4-K	2 mm	PNP NC	10–30 V DC	M12 connector	Stainless steel	Short (K)	All metals
SGI-FM08U-020PB-Q4	2 mm	PNP NC	10–30 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM08U-020PB-C2-FE	2 mm	PNP NC	10–30 V DC	2 m cable	Stainless steel	Standard	Ferrous only (FE)
SGI-FM08U-020PB-Q3-FE	2 mm	PNP NC	10–30 V DC	M8 connector	Stainless steel	Standard	Ferrous only (FE)
SGI-FM08U-020PB-C2-NF	2 mm	PNP NC	10–30 V DC	2 m cable	Stainless steel	Standard	Non-ferrous only (NF)
SGI-FM08U-020PB-Q3-NF	2 mm	PNP NC	10–30 V DC	M8 connector	Stainless steel	Standard	Non-ferrous only (NF)

Part number	Sensing distance	Output	Supply	Connection	Housing	Length	Targets
SGI-FM08U-020DA-C2	2 mm	DC 2-wire NO	10–60 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM08U-020DA-Q3	2 mm	DC 2-wire NO	10–60 V DC	M8 connector	Stainless steel	Standard	All metals
SGI-FM08U-020DA-Q4	2 mm	DC 2-wire NO	10–60 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM08U-020DB-C2	2 mm	DC 2-wire NC	10–60 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM08U-020DB-Q3	2 mm	DC 2-wire NC	10–60 V DC	M8 connector	Stainless steel	Standard	All metals
SGI-FM08U-020DB-Q4	2 mm	DC 2-wire NC	10–60 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM08U-035NA-C2-K	3.5 mm	NPN NO	10–30 V DC	2 m cable	Stainless steel	Short (K)	All metals
SGI-FM08U-035NA-C2	3.5 mm	NPN NO	10–30 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM08U-035NA-Q3-K	3.5 mm	NPN NO	10–30 V DC	M8 connector	Stainless steel	Short (K)	All metals
SGI-FM08U-035NA-Q3	3.5 mm	NPN NO	10–30 V DC	M8 connector	Stainless steel	Standard	All metals
SGI-FM08U-035NA-Q4-K	3.5 mm	NPN NO	10–30 V DC	M12 connector	Stainless steel	Short (K)	All metals
SGI-FM08U-035NA-Q4	3.5 mm	NPN NO	10–30 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM08U-035NB-C2-K	3.5 mm	NPN NC	10–30 V DC	2 m cable	Stainless steel	Short (K)	All metals
SGI-FM08U-035NB-C2	3.5 mm	NPN NC	10–30 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM08U-035NB-Q3-K	3.5 mm	NPN NC	10–30 V DC	M8 connector	Stainless steel	Short (K)	All metals
SGI-FM08U-035NB-Q3	3.5 mm	NPN NC	10–30 V DC	M8 connector	Stainless steel	Standard	All metals
SGI-FM08U-035NB-Q4-K	3.5 mm	NPN NC	10–30 V DC	M12 connector	Stainless steel	Short (K)	All metals
SGI-FM08U-035NB-Q4	3.5 mm	NPN NC	10–30 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM08U-035PA-C2-K	3.5 mm	PNP NO	10–30 V DC	2 m cable	Stainless steel	Short (K)	All metals
SGI-FM08U-035PA-C2	3.5 mm	PNP NO	10–30 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM08U-035PA-Q3-K	3.5 mm	PNP NO	10–30 V DC	M8 connector	Stainless steel	Short (K)	All metals
SGI-FM08U-035PA-Q3	3.5 mm	PNP NO	10–30 V DC	M8 connector	Stainless steel	Standard	All metals
SGI-FM08U-035PA-Q4-K	3.5 mm	PNP NO	10–30 V DC	M12 connector	Stainless steel	Short (K)	All metals

Part number	Sensing distance	Output	Supply	Connection	Housing	Length	Targets
SGI-FM08U-035PA-Q4	3.5 mm	PNP NO	10–30 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM08U-035PB-C2-K	3.5 mm	PNP NC	10–30 V DC	2 m cable	Stainless steel	Short (K)	All metals
SGI-FM08U-035PB-C2	3.5 mm	PNP NC	10–30 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM08U-035PB-Q3-K	3.5 mm	PNP NC	10–30 V DC	M8 connector	Stainless steel	Short (K)	All metals
SGI-FM08U-035PB-Q3	3.5 mm	PNP NC	10–30 V DC	M8 connector	Stainless steel	Standard	All metals
SGI-FM08U-035PB-Q4-K	3.5 mm	PNP NC	10–30 V DC	M12 connector	Stainless steel	Short (K)	All metals
SGI-FM08U-035PB-Q4	3.5 mm	PNP NC	10–30 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM08U-035DA-C2	3.5 mm	DC 2-wire NO	10–60 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM08U-035DA-Q3	3.5 mm	DC 2-wire NO	10–60 V DC	M8 connector	Stainless steel	Standard	All metals
SGI-FM08U-035DA-Q4	3.5 mm	DC 2-wire NO	10–60 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM08U-035DB-C2	3.5 mm	DC 2-wire NC	10–60 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM08U-035DB-Q3	3.5 mm	DC 2-wire NC	10–60 V DC	M8 connector	Stainless steel	Standard	All metals
SGI-FM08U-035DB-Q4	3.5 mm	DC 2-wire NC	10–60 V DC	M12 connector	Stainless steel	Standard	All metals

Questions and answers

What is an all-metal inductive proximity sensor?

An all-metal inductive sensor has a stainless steel housing and a stainless steel sensing face instead of a plastic cap. It is intended for installations exposed to impacts, chips or contamination.

What does non-flush mean for an M8 sensor?

A non-flush (unshielded) sensor has a protruding sensing face and needs a metal-free zone around it, but reaches further than a flush model of the same size.

Which sensing distances are available?

This family has 76 part numbers with these rated sensing distances: 2 / 3.5 mm.

Which supply voltages are available?

Supply ranges in this family: 10–30 V DC, 10–60 V DC.

Which connections are available?

Connection options: 2 m cable (28 models), M8 connector (28 models), M12 connector (20 models).

What do the FE and NF versions mean?

FE versions detect ferrous metals only; NF (also NE) versions do not detect iron and steel. Standard versions detect all metals.

Can I order with the SEGMENsensor part number?

Yes. Each part number is one fixed configuration. Click Quote in the model table or enter the part number in the form; the datasheet and lead time are confirmed with the quotation.

Segmen Industrial Development Co., Ltd.
www.segmensensor.com • info@segmensensor.com • +86 138 2870 4591
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