M18 Flush All-Metal Inductive Proximity Sensors 5–8 mm



M18 flush all-metal inductive proximity sensors. Rated sensing distances 5 / 8 mm; NPN, PNP, DC 2-wire outputs; 2 m cable, M12 connector. 54 part numbers, each a fixed SEGMENsensor order code.

Sensing distance **5–8 mm** Outputs **NPN • PNP • DC 2-wire**

Connection **2 m cable • M12 connector** Part numbers **54**

Key facts

- Rated sensing distances: 5 / 8 mm.
- Supply: 10–30 V DC, 10–60 V DC.
- Outputs: NPN, PNP, DC 2-wire.
- Connections: 2 m cable (26), M12 connector (28). Housing: Stainless steel. 19 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	M18 thread, Stainless steel
Mounting	Flush (embeddable)
Rated sensing distance	5 / 8 mm
Outputs	NPN, PNP, DC 2-wire
Supply	10–30 V DC, 10–60 V DC
Connection	2 m cable, 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-FM18S-050PA-Q4-K

SGI SEGMENsensor inductive

18 · S M18 flush (U = non-flush)

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)

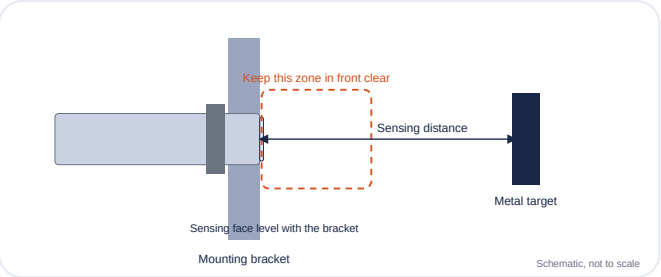
K K = short housing; FE = ferrous metals only; NF / NE = non-ferrous metals only

FM All-metal series (stainless steel sensing face)

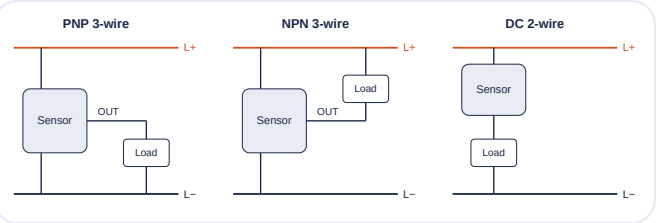
050 Sensing distance in 0.1 mm: 5 mm

Q4 C2 = 2 m cable, Q4 = M12 connector

Mounting



Wiring



All part numbers

Part number	Sensing distance	Output	Supply	Connection	Housing	Length	Targets
SGI-FM18S-050NA-C2-K	5 mm	NPN NO	10–30 V DC	2 m cable	Stainless steel	Short (K)	All metals
SGI-FM18S-050NA-C2	5 mm	NPN NO	10–30 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM18S-050NA-Q4-K	5 mm	NPN NO	10–30 V DC	M12 connector	Stainless steel	Short (K)	All metals
SGI-FM18S-050NA-Q4	5 mm	NPN NO	10–30 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM18S-050NA-C2-FE	5 mm	NPN NO	10–30 V DC	2 m cable	Stainless steel	Standard	Ferrous only (FE)
SGI-FM18S-050NA-Q4-FE	5 mm	NPN NO	10–30 V DC	M12 connector	Stainless steel	Standard	Ferrous only (FE)
SGI-FM18S-050NA-C2-NF	5 mm	NPN NO	10–30 V DC	2 m cable	Stainless steel	Standard	Non-ferrous only (NF)
SGI-FM18S-050NA-Q4-NF	5 mm	NPN NO	10–30 V DC	M12 connector	Stainless steel	Standard	Non-ferrous only (NF)
SGI-FM18S-050NB-C2-K	5 mm	NPN NC	10–30 V DC	2 m cable	Stainless steel	Short (K)	All metals
SGI-FM18S-050NB-C2	5 mm	NPN NC	10–30 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM18S-050NB-Q4-K	5 mm	NPN NC	10–30 V DC	M12 connector	Stainless steel	Short (K)	All metals
SGI-FM18S-050NB-Q4	5 mm	NPN NC	10–30 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM18S-050NB-C2-FE	5 mm	NPN NC	10–30 V DC	2 m cable	Stainless steel	Standard	Ferrous only (FE)
SGI-FM18S-050NB-Q4-FE	5 mm	NPN NC	10–30 V DC	M12 connector	Stainless steel	Standard	Ferrous only (FE)
SGI-FM18S-050NB-C2-NF	5 mm	NPN NC	10–30 V DC	2 m cable	Stainless steel	Standard	Non-ferrous only (NF)
SGI-FM18S-050NB-Q4-NF	5 mm	NPN NC	10–30 V DC	M12 connector	Stainless steel	Standard	Non-ferrous only (NF)
SGI-FM18S-050PA-C2-K	5 mm	PNP NO	10–30 V DC	2 m cable	Stainless steel	Short (K)	All metals

Part number	Sensing distance	Output	Supply	Connection	Housing	Length	Targets
SGI-FM18S-050PA-C2	5 mm	PNP NO	10–30 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM18S-050PA-Q4-K	5 mm	PNP NO	10–30 V DC	M12 connector	Stainless steel	Short (K)	All metals
SGI-FM18S-050PA-Q4	5 mm	PNP NO	10–30 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM18S-050PA-Q4-FE	5 mm	PNP NO	10–30 V DC	M12 connector	Stainless steel	Standard	Ferrous only (FE)
SGI-FM18S-050PA-C2-NF	5 mm	PNP NO	10–30 V DC	2 m cable	Stainless steel	Standard	Non-ferrous only (NF)
SGI-FM18S-050PA-Q4-NF	5 mm	PNP NO	10–30 V DC	M12 connector	Stainless steel	Standard	Non-ferrous only (NF)
SGI-FM18S-050PB-C2-K	5 mm	PNP NC	10–30 V DC	2 m cable	Stainless steel	Short (K)	All metals
SGI-FM18S-050PB-C2	5 mm	PNP NC	10–30 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM18S-050PB-Q4-K	5 mm	PNP NC	10–30 V DC	M12 connector	Stainless steel	Short (K)	All metals
SGI-FM18S-050PB-Q4	5 mm	PNP NC	10–30 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM18S-050PB-C2-FE	5 mm	PNP NC	10–30 V DC	2 m cable	Stainless steel	Standard	Ferrous only (FE)
SGI-FM18S-050PB-Q4-FE	5 mm	PNP NC	10–30 V DC	M12 connector	Stainless steel	Standard	Ferrous only (FE)
SGI-FM18S-050PB-C2-NF	5 mm	PNP NC	10–30 V DC	2 m cable	Stainless steel	Standard	Non-ferrous only (NF)
SGI-FM18S-050PB-Q4-NF	5 mm	PNP NC	10–30 V DC	M12 connector	Stainless steel	Standard	Non-ferrous only (NF)
SGI-FM18S-050DA-C2-K	5 mm	DC 2-wire NO	10–60 V DC	2 m cable	Stainless steel	Short (K)	All metals
SGI-FM18S-050DA-C2	5 mm	DC 2-wire NO	10–60 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM18S-050DA-Q4-K	5 mm	DC 2-wire NO	10–60 V DC	M12 connector	Stainless steel	Short (K)	All metals
SGI-FM18S-050DA-Q4	5 mm	DC 2-wire NO	10–60 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM18S-050DB-C2-K	5 mm	DC 2-wire NC	10–60 V DC	2 m cable	Stainless steel	Short (K)	All metals
SGI-FM18S-050DB-C2	5 mm	DC 2-wire NC	10–60 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM18S-050DB-Q4-K	5 mm	DC 2-wire NC	10–60 V DC	M12 connector	Stainless steel	Short (K)	All metals
SGI-FM18S-050DB-Q4	5 mm	DC 2-wire NC	10–60 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM18S-080NA-C2-K	8 mm	NPN NO	10–30 V DC	2 m cable	Stainless steel	Short (K)	All metals

Part number	Sensing distance	Output	Supply	Connection	Housing	Length	Targets
SGI-FM18S-080NA-C2	8 mm	NPN NO	10–30 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM18S-080NA-Q4-K	8 mm	NPN NO	10–30 V DC	M12 connector	Stainless steel	Short (K)	All metals
SGI-FM18S-080NA-Q4	8 mm	NPN NO	10–30 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM18S-080NB-C2-K	8 mm	NPN NC	10–30 V DC	2 m cable	Stainless steel	Short (K)	All metals
SGI-FM18S-080NB-C2	8 mm	NPN NC	10–30 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM18S-080NB-Q4-K	8 mm	NPN NC	10–30 V DC	M12 connector	Stainless steel	Short (K)	All metals
SGI-FM18S-080NB-Q4	8 mm	NPN NC	10–30 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM18S-080PA-C2	8 mm	PNP NO	10–30 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM18S-080PA-Q4-K	8 mm	PNP NO	10–30 V DC	M12 connector	Stainless steel	Short (K)	All metals
SGI-FM18S-080PA-Q4	8 mm	PNP NO	10–30 V DC	M12 connector	Stainless steel	Standard	All metals
SGI-FM18S-080PB-C2-K	8 mm	PNP NC	10–30 V DC	2 m cable	Stainless steel	Short (K)	All metals
SGI-FM18S-080PB-C2	8 mm	PNP NC	10–30 V DC	2 m cable	Stainless steel	Standard	All metals
SGI-FM18S-080PB-Q4-K	8 mm	PNP NC	10–30 V DC	M12 connector	Stainless steel	Short (K)	All metals
SGI-FM18S-080PB-Q4	8 mm	PNP NC	10–30 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 flush mean for an M18 sensor?

A flush (shielded) sensor can be mounted level with the surrounding metal; keep the area in front of the sensing face clear.

Which sensing distances are available?

This family has 54 part numbers with these rated sensing distances: 5 / 8 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 (26 models), M12 connector (28 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
https://www.segmensensor.com/products/m18-flush-all-metal-inductive-proximity-sensor.html

Generated from https://www.segmensensor.com/products/m18-flush-all-metal-inductive-proximity-sensor.html on 2026-11-10. Specifications are subject to change; final values are confirmed with the order.