6.5 mm Flush Capacitive Proximity Sensors 1–2 mm



6.5 mm flush capacitive proximity sensors. Rated sensing distances 1 / 2 mm; NPN, PNP outputs; 2 m cable, M8 connector, M12 connector. 24 part numbers, each a fixed SEGMENsensor order code.

Sensing distance **1–2 mm** Outputs **NPN • PNP**

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

Part numbers **24**

Key facts

- Rated sensing distances: 1 / 2 mm.
- Supply: 10–30 V DC.
- Outputs: NPN, PNP.
- Connections: 2 m cable (8), M8 connector (8), M12 connector (8). Housing: Nickel-plated brass.
- Qualification samples of 1–5 pcs ship in 5–7 days; production is planned around your annual volume.

Family data

Housing	Smooth Ø6.5 mm barrel, Nickel-plated brass
Mounting	Flush (embeddable)
Rated sensing distance	1 / 2 mm
Outputs	NPN, PNP
Supply	10–30 V DC
Connection	2 m cable, M8 connector, M12 connector
Targets	Metal and non-metal materials
Other electrical data	Per part-number datasheet, sent with the quotation

Reading the part number

SGC-GPD65S-020PA-C2

SGC SEGMENsensor capacitive

GP General-purpose series

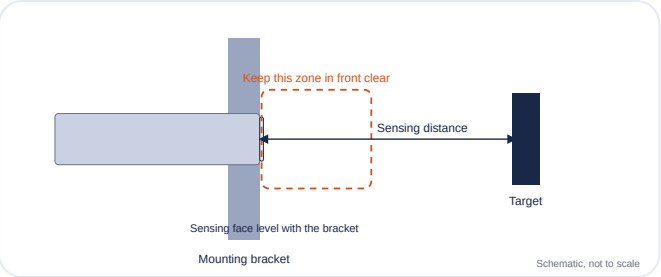
D65 · S 6.5 mm flush (U = non-flush)

020 Sensing distance in 0.1 mm: 2 mm

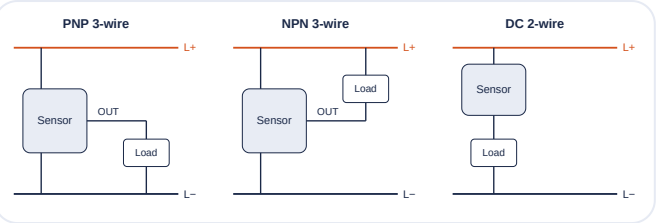
P · A PNP • NO (N = NPN, P = PNP, D = DC 2-wire, J = AC 2-wire, U = AC/DC; A = NO, B = NC, C = NO + NC)

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

Mounting



Wiring



All part numbers

Part number	Sensing distance	Output	Supply	Connection	Housing
SGC-GPD65S-010NA-C2	1 mm	NPN NO	10–30 V DC	2 m cable	Nickel-plated brass
SGC-GPD65S-010NA-Q3	1 mm	NPN NO	10–30 V DC	M8 connector	Nickel-plated brass
SGC-GPD65S-010NA-Q4	1 mm	NPN NO	10–30 V DC	M12 connector	Nickel-plated brass
SGC-GPD65S-010NB-C2	1 mm	NPN NC	10–30 V DC	2 m cable	Nickel-plated brass
SGC-GPD65S-010NB-Q3	1 mm	NPN NC	10–30 V DC	M8 connector	Nickel-plated brass
SGC-GPD65S-010NB-Q4	1 mm	NPN NC	10–30 V DC	M12 connector	Nickel-plated brass
SGC-GPD65S-010PA-C2	1 mm	PNP NO	10–30 V DC	2 m cable	Nickel-plated brass
SGC-GPD65S-010PA-Q3	1 mm	PNP NO	10–30 V DC	M8 connector	Nickel-plated brass
SGC-GPD65S-010PA-Q4	1 mm	PNP NO	10–30 V DC	M12 connector	Nickel-plated brass
SGC-GPD65S-010PB-C2	1 mm	PNP NC	10–30 V DC	2 m cable	Nickel-plated brass
SGC-GPD65S-010PB-Q3	1 mm	PNP NC	10–30 V DC	M8 connector	Nickel-plated brass
SGC-GPD65S-010PB-Q4	1 mm	PNP NC	10–30 V DC	M12 connector	Nickel-plated brass
SGC-GPD65S-020NA-C2	2 mm	NPN NO	10–30 V DC	2 m cable	Nickel-plated brass
SGC-GPD65S-020NA-Q3	2 mm	NPN NO	10–30 V DC	M8 connector	Nickel-plated brass
SGC-GPD65S-020NA-Q4	2 mm	NPN NO	10–30 V DC	M12 connector	Nickel-plated brass
SGC-GPD65S-020NB-C2	2 mm	NPN NC	10–30 V DC	2 m cable	Nickel-plated brass
SGC-GPD65S-020NB-Q3	2 mm	NPN NC	10–30 V DC	M8 connector	Nickel-plated brass
SGC-GPD65S-020NB-Q4	2 mm	NPN NC	10–30 V DC	M12 connector	Nickel-plated brass
SGC-GPD65S-020PA-C2	2 mm	PNP NO	10–30 V DC	2 m cable	Nickel-plated brass
SGC-GPD65S-020PA-Q3	2 mm	PNP NO	10–30 V DC	M8 connector	Nickel-plated brass
SGC-GPD65S-020PA-Q4	2 mm	PNP NO	10–30 V DC	M12 connector	Nickel-plated brass
SGC-GPD65S-020PB-C2	2 mm	PNP NC	10–30 V DC	2 m cable	Nickel-plated brass
SGC-GPD65S-020PB-Q3	2 mm	PNP NC	10–30 V DC	M8 connector	Nickel-plated brass
SGC-GPD65S-020PB-Q4	2 mm	PNP NC	10–30 V DC	M12 connector	Nickel-plated brass

Questions and answers

What can a 6.5 mm capacitive proximity sensor detect?

Capacitive sensors detect both metal and non-metal targets, for example liquids, wood, plastics and paper. The switching distance depends on the target material, so test with your actual material before fixing the position.

What does flush mean for a 6.5 mm 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 24 part numbers with these rated sensing distances: 1 / 2 mm.

Which supply voltages are available?

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

Which connections are available?

Connection options: 2 m cable (8 models), M8 connector (8 models), M12 connector (8 models).

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/6-5mm-flush-capacitive-proximity-sensor.html

Generated from https://www.segmensensor.com/products/6-5mm-flush-capacitive-proximity-sensor.html on 2026-11-10. Specifications are subject to change; final values are confirmed with the order.