

M18 Flush Inductive Proximity Sensors 5–15 mm



M18 flush inductive proximity sensors. Rated sensing distances 5 / 8 / 12 / 15 mm; NPN, PNP, DC 2-wire, AC 2-wire, AC/DC outputs; 2 m cable, M12 connector. 303 part numbers, each a fixed SEGMENTSensor order code.

Sensing distance **5–15 mm**

Outputs **NPN • PNP • DC 2-wire • AC 2-wire • AC/DC**

Connection **2 m cable • M12 connector** Part numbers **303**

Key facts

- Rated sensing distances: 5 / 8 / 12 / 15 mm.
- Supply: 10–30 V DC, 5–36 V DC, 10–55 V DC, 10–60 V DC, 20–250 V AC, 20–250 V AC/DC.
- Outputs: NPN, PNP, DC 2-wire, AC 2-wire, AC/DC. 64 NPN/PNP models have complementary NO + NC outputs.
- Connections: 2 m cable (155), M12 connector (148). Housing: Nickel-plated brass. 152 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

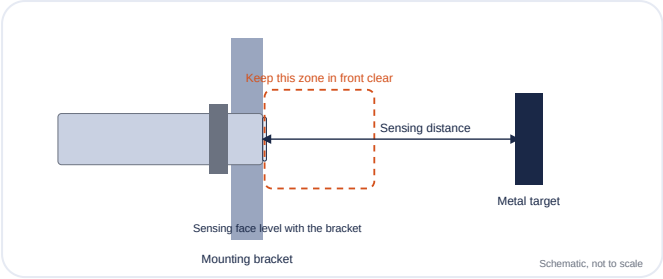
Housing	M18 thread, Nickel-plated brass
Mounting	Flush (embeddable)
Rated sensing distance	5 / 8 / 12 / 15 mm
Outputs	NPN, PNP, DC 2-wire, AC 2-wire, AC/DC
Supply	10–30 V DC, 5–36 V DC, 10–55 V DC, 10–60 V DC, 20–250 V AC, 20–250 V AC/DC
Connection	2 m cable, M12 connector
Housing length	Standard, Short (K)
Other electrical data	Per part-number datasheet, sent with the quotation

Reading the part number

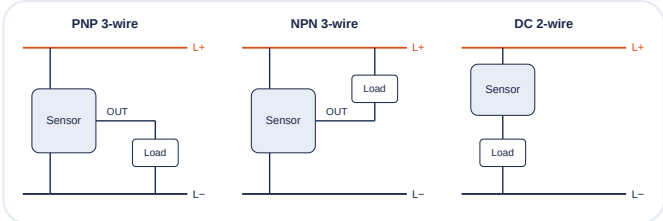
SGI-GP18S-120PA-C2-K-V36

SGI	SEGMENTSensor inductive	GP	General-purpose series
18 • S	M18 flush (U = non-flush)	120	Sensing distance in 0.1 mm: 12 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, Q4 = M12 connector
K • V36	K = short housing; V36 = 5–36 V DC; V55 = 10–55 V DC; 3W = 3-wire cable (AC/DC); no voltage code = 10–30 V DC for NPN/PNP		

Mounting



Wiring



All part numbers

Part number	Sensing distance	Output	Supply	Connection	Housing	Length
SGI-GP18S-050NA-C2-K	5 mm	NPN NO	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050NA-C2	5 mm	NPN NO	10–30 V DC	2 m cable	Not listed	Standard
SGI-GP18S-050NA-Q4-K	5 mm	NPN NO	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-050NA-Q4	5 mm	NPN NO	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-050NA-C2-K-V36	5 mm	NPN NO	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050NA-C2-V36	5 mm	NPN NO	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-050NA-Q4-K-V36	5 mm	NPN NO	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-050NA-Q4-V36	5 mm	NPN NO	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-050NA-C2-K-V55	5 mm	NPN NO	10–55 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050NA-C2-V55	5 mm	NPN NO	10–55 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-050NA-Q4-K-V55	5 mm	NPN NO	10–55 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-050NA-Q4-V55	5 mm	NPN NO	10–55 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-050NB-C2-K	5 mm	NPN NC	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050NB-C2	5 mm	NPN NC	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-050NB-Q4-K	5 mm	NPN NC	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-050NB-Q4	5 mm	NPN NC	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-050NB-C2-K-V36	5 mm	NPN NC	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)

Part number	Sensing distance	Output	Supply	Connection	Housing	Length
SGI-GP18S-050NB-C2-V36	5 mm	NPN NC	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-050NB-Q4-K-V36	5 mm	NPN NC	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-050NB-Q4-V36	5 mm	NPN NC	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-050NB-C2-K-V55	5 mm	NPN NC	10–55 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050NB-C2-V55	5 mm	NPN NC	10–55 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-050NB-Q4-K-V55	5 mm	NPN NC	10–55 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-050NB-Q4-V55	5 mm	NPN NC	10–55 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-050NC-C2-K	5 mm	NPN NO + NC	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050NC-C2	5 mm	NPN NO + NC	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-050NC-Q4-K	5 mm	NPN NO + NC	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-050NC-Q4	5 mm	NPN NO + NC	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-050NC-C2-K-V36	5 mm	NPN NO + NC	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050NC-C2-V36	5 mm	NPN NO + NC	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-050NC-Q4-K-V36	5 mm	NPN NO + NC	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-050NC-Q4-V36	5 mm	NPN NO + NC	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-050PA-C2-K	5 mm	PNP NO	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050PA-C2	5 mm	PNP NO	10–30 V DC	2 m cable	Not listed	Standard
SGI-GP18S-050PA-Q4-K	5 mm	PNP NO	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-050PA-Q4	5 mm	PNP NO	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-050PA-C2-K-V36	5 mm	PNP NO	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050PA-C2-V36	5 mm	PNP NO	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-050PA-Q4-K-V36	5 mm	PNP NO	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-050PA-Q4-V36	5 mm	PNP NO	5–36 V DC	M12 connector	Nickel-plated brass	Standard

Part number	Sensing distance	Output	Supply	Connection	Housing	Length
SGI-GP18S-050PA-C2-K-V55	5 mm	PNP NO	10–55 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050PA-C2-V55	5 mm	PNP NO	10–55 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-050PA-Q4-K-V55	5 mm	PNP NO	10–55 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-050PA-Q4-V55	5 mm	PNP NO	10–55 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-050PB-C2-K	5 mm	PNP NC	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050PB-C2	5 mm	PNP NC	10–30 V DC	2 m cable	Not listed	Standard
SGI-GP18S-050PB-Q4-K	5 mm	PNP NC	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-050PB-Q4	5 mm	PNP NC	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-050PB-C2-K-V36	5 mm	PNP NC	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050PB-C2-V36	5 mm	PNP NC	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-050PB-Q4-K-V36	5 mm	PNP NC	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-050PB-Q4-V36	5 mm	PNP NC	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-050PB-C2-K-V55	5 mm	PNP NC	10–55 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050PB-C2-V55	5 mm	PNP NC	10–55 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-050PB-Q4-K-V55	5 mm	PNP NC	10–55 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-050PB-Q4-V55	5 mm	PNP NC	10–55 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-050PC-C2-K	5 mm	PNP NO + NC	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050PC-C2	5 mm	PNP NO + NC	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-050PC-Q4-K	5 mm	PNP NO + NC	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-050PC-Q4	5 mm	PNP NO + NC	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-050PC-C2-K-V36	5 mm	PNP NO + NC	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050PC-C2-V36	5 mm	PNP NO + NC	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-050PC-Q4-K-V36	5 mm	PNP NO + NC	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)

Part number	Sensing distance	Output	Supply	Connection	Housing	Length
SGI-GP18S-050PC-Q4-V36	5 mm	PNP NO + NC	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-050DA-C2-K	5 mm	DC 2-wire NO	10–60 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050DA-C2	5 mm	DC 2-wire NO	10–60 V DC	2 m cable	Not listed	Standard
SGI-GP18S-050DA-Q4-K	5 mm	DC 2-wire NO	10–60 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-050DA-Q4	5 mm	DC 2-wire NO	10–60 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-050DB-C2-K	5 mm	DC 2-wire NC	10–60 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050DB-C2	5 mm	DC 2-wire NC	10–60 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-050DB-Q4-K	5 mm	DC 2-wire NC	10–60 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-050DB-Q4	5 mm	DC 2-wire NC	10–60 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-050JA-C2-K	5 mm	AC 2-wire NO	20–250 V AC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050JB-C2-K	5 mm	AC 2-wire NC	20–250 V AC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-050UA-C2-K-3W	5 mm	AC/DC NO	20–250 V AC/DC	2 m cable (3-wire)	Nickel-plated brass	Short (K)
SGI-GP18S-050UA-C2-3W	5 mm	AC/DC NO	20–250 V AC/DC	2 m cable (3-wire)	Nickel-plated brass	Standard
SGI-GP18S-050UA-Q4	5 mm	AC/DC NO	20–250 V AC/DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-050UB-C2-K-3W	5 mm	AC/DC NC	20–250 V AC/DC	2 m cable (3-wire)	Nickel-plated brass	Short (K)
SGI-GP18S-050UB-C2-3W	5 mm	AC/DC NC	20–250 V AC/DC	2 m cable (3-wire)	Nickel-plated brass	Standard
SGI-GP18S-050UB-Q4	5 mm	AC/DC NC	20–250 V AC/DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080NA-C2-K	8 mm	NPN NO	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080NA-C2	8 mm	NPN NO	10–30 V DC	2 m cable	Not listed	Standard
SGI-GP18S-080NA-Q4-K	8 mm	NPN NO	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-080NA-Q4	8 mm	NPN NO	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080NA-C2-K-V36	8 mm	NPN NO	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080NA-C2-V36	8 mm	NPN NO	5–36 V DC	2 m cable	Nickel-plated brass	Standard

Part number	Sensing distance	Output	Supply	Connection	Housing	Length
SGI-GP18S-080NA-Q4-K-V36	8 mm	NPN NO	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-080NA-Q4-V36	8 mm	NPN NO	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080NA-C2-K-V55	8 mm	NPN NO	10–55 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080NA-C2-V55	8 mm	NPN NO	10–55 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-080NA-Q4-K-V55	8 mm	NPN NO	10–55 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-080NA-Q4-V55	8 mm	NPN NO	10–55 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080NB-C2-K	8 mm	NPN NC	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080NB-C2	8 mm	NPN NC	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-080NB-Q4-K	8 mm	NPN NC	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-080NB-Q4	8 mm	NPN NC	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080NB-C2-K-V36	8 mm	NPN NC	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080NB-C2-V36	8 mm	NPN NC	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-080NB-Q4-K-V36	8 mm	NPN NC	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-080NB-Q4-V36	8 mm	NPN NC	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080NB-C2-K-V55	8 mm	NPN NC	10–55 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080NB-C2-V55	8 mm	NPN NC	10–55 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-080NB-Q4-K-V55	8 mm	NPN NC	10–55 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-080NB-Q4-V55	8 mm	NPN NC	10–55 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080NC-C2-K	8 mm	NPN NO + NC	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080NC-C2	8 mm	NPN NO + NC	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-080NC-Q4-K	8 mm	NPN NO + NC	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-080NC-Q4	8 mm	NPN NO + NC	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080NC-C2-K-V36	8 mm	NPN NO + NC	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)

Part number	Sensing distance	Output	Supply	Connection	Housing	Length
SGI-GP18S-080NC-C2-V36	8 mm	NPN NO + NC	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-080NC-Q4-K-V36	8 mm	NPN NO + NC	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-080NC-Q4-V36	8 mm	NPN NO + NC	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080PA-C2-K	8 mm	PNP NO	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080PA-C2	8 mm	PNP NO	10–30 V DC	2 m cable	Not listed	Standard
SGI-GP18S-080PA-Q4-K	8 mm	PNP NO	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-080PA-Q4	8 mm	PNP NO	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080PA-C2-K-V36	8 mm	PNP NO	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080PA-C2-V36	8 mm	PNP NO	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-080PA-Q4-K-V36	8 mm	PNP NO	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-080PA-Q4-V36	8 mm	PNP NO	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080PA-C2-K-V55	8 mm	PNP NO	10–55 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080PA-C2-V55	8 mm	PNP NO	10–55 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-080PA-Q4-K-V55	8 mm	PNP NO	10–55 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-080PA-Q4-V55	8 mm	PNP NO	10–55 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080PB-C2-K	8 mm	PNP NC	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080PB-C2	8 mm	PNP NC	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-080PB-Q4-K	8 mm	PNP NC	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-080PB-Q4	8 mm	PNP NC	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080PB-C2-K-V36	8 mm	PNP NC	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080PB-C2-V36	8 mm	PNP NC	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-080PB-Q4-K-V36	8 mm	PNP NC	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-080PB-Q4-V36	8 mm	PNP NC	5–36 V DC	M12 connector	Nickel-plated brass	Standard

Part number	Sensing distance	Output	Supply	Connection	Housing	Length
SGI-GP18S-080PB-C2-K-V55	8 mm	PNP NC	10–55 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080PB-C2-V55	8 mm	PNP NC	10–55 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-080PB-Q4-K-V55	8 mm	PNP NC	10–55 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-080PB-Q4-V55	8 mm	PNP NC	10–55 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080PC-C2-K	8 mm	PNP NO + NC	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080PC-C2	8 mm	PNP NO + NC	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-080PC-Q4-K	8 mm	PNP NO + NC	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-080PC-Q4	8 mm	PNP NO + NC	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080PC-C2-K-V36	8 mm	PNP NO + NC	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080PC-C2-V36	8 mm	PNP NO + NC	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-080PC-Q4-K-V36	8 mm	PNP NO + NC	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-080PC-Q4-V36	8 mm	PNP NO + NC	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080DA-C2-K	8 mm	DC 2-wire NO	10–60 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080DA-C2	8 mm	DC 2-wire NO	10–60 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-080DA-Q4-K	8 mm	DC 2-wire NO	10–60 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-080DA-Q4	8 mm	DC 2-wire NO	10–60 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080DB-C2-K	8 mm	DC 2-wire NC	10–60 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080DB-C2	8 mm	DC 2-wire NC	10–60 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-080DB-Q4-K	8 mm	DC 2-wire NC	10–60 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-080DB-Q4	8 mm	DC 2-wire NC	10–60 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080JA-C2-K	8 mm	AC 2-wire NO	20–250 V AC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080JB-C2-K	8 mm	AC 2-wire NC	20–250 V AC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-080UA-C2-K-3W	8 mm	AC/DC NO	20–250 V AC/DC	2 m cable (3-wire)	Nickel-plated brass	Short (K)

Part number	Sensing distance	Output	Supply	Connection	Housing	Length
SGI-GP18S-080UA-Q4	8 mm	AC/DC NO	20–250 V AC/DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-080UB-C2-K-3W	8 mm	AC/DC NC	20–250 V AC/DC	2 m cable (3-wire)	Nickel-plated brass	Short (K)
SGI-GP18S-080UB-C2-3W	8 mm	AC/DC NC	20–250 V AC/DC	2 m cable (3-wire)	Nickel-plated brass	Standard
SGI-GP18S-080UB-Q4	8 mm	AC/DC NC	20–250 V AC/DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-120NA-C2-K	12 mm	NPN NO	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-120NA-C2	12 mm	NPN NO	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-120NA-Q4-K	12 mm	NPN NO	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-120NA-Q4	12 mm	NPN NO	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-120NA-C2-K-V36	12 mm	NPN NO	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-120NA-C2-V36	12 mm	NPN NO	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-120NA-Q4-K-V36	12 mm	NPN NO	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-120NA-Q4-V36	12 mm	NPN NO	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-120NA-C2-K-V55	12 mm	NPN NO	10–55 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-120NA-C2-V55	12 mm	NPN NO	10–55 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-120NA-Q4-K-V55	12 mm	NPN NO	10–55 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-120NA-Q4-V55	12 mm	NPN NO	10–55 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-120NB-C2-K	12 mm	NPN NC	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-120NB-C2	12 mm	NPN NC	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-120NB-Q4-K	12 mm	NPN NC	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-120NB-Q4	12 mm	NPN NC	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-120NB-C2-K-V36	12 mm	NPN NC	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-120NB-C2-V36	12 mm	NPN NC	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-120NB-Q4-K-V36	12 mm	NPN NC	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)

Part number	Sensing distance	Output	Supply	Connection	Housing	Length
SGI-GP18S-120NB-Q4-V36	12 mm	NPN NC	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-120NB-C2-K-V55	12 mm	NPN NC	10–55 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-120NB-C2-V55	12 mm	NPN NC	10–55 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-120NB-Q4-K-V55	12 mm	NPN NC	10–55 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-120NB-Q4-V55	12 mm	NPN NC	10–55 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-120NC-C2-K	12 mm	NPN NO + NC	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-120NC-C2	12 mm	NPN NO + NC	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-120NC-Q4-K	12 mm	NPN NO + NC	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-120NC-Q4	12 mm	NPN NO + NC	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-120NC-C2-K-V36	12 mm	NPN NO + NC	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-120NC-C2-V36	12 mm	NPN NO + NC	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-120NC-Q4-K-V36	12 mm	NPN NO + NC	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-120NC-Q4-V36	12 mm	NPN NO + NC	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-120PA-C2-K	12 mm	PNP NO	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-120PA-C2	12 mm	PNP NO	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-120PA-Q4-K	12 mm	PNP NO	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-120PA-Q4	12 mm	PNP NO	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-120PA-C2-K-V36	12 mm	PNP NO	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-120PA-C2-V36	12 mm	PNP NO	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-120PA-Q4-K-V36	12 mm	PNP NO	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-120PA-Q4-V36	12 mm	PNP NO	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-120PA-C2-K-V55	12 mm	PNP NO	10–55 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-120PA-C2-V55	12 mm	PNP NO	10–55 V DC	2 m cable	Nickel-plated brass	Standard

Part number	Sensing distance	Output	Supply	Connection	Housing	Length
SGI-GP18S-120PA-Q4-K-V55	12 mm	PNP NO	10–55 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-120PA-Q4-V55	12 mm	PNP NO	10–55 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-120PB-C2-K	12 mm	PNP NC	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-120PB-C2	12 mm	PNP NC	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-120PB-Q4-K	12 mm	PNP NC	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-120PB-Q4	12 mm	PNP NC	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-120PB-C2-K-V36	12 mm	PNP NC	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-120PB-C2-V36	12 mm	PNP NC	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-120PB-Q4-K-V36	12 mm	PNP NC	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-120PB-Q4-V36	12 mm	PNP NC	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-120PB-C2-K-V55	12 mm	PNP NC	10–55 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-120PB-C2-V55	12 mm	PNP NC	10–55 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-120PB-Q4-K-V55	12 mm	PNP NC	10–55 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-120PB-Q4-V55	12 mm	PNP NC	10–55 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-120PC-C2-K	12 mm	PNP NO + NC	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-120PC-C2	12 mm	PNP NO + NC	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-120PC-Q4-K	12 mm	PNP NO + NC	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-120PC-Q4	12 mm	PNP NO + NC	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-120PC-C2-K-V36	12 mm	PNP NO + NC	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-120PC-C2-V36	12 mm	PNP NO + NC	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-120PC-Q4-K-V36	12 mm	PNP NO + NC	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-120PC-Q4-V36	12 mm	PNP NO + NC	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-120DA-C2-K	12 mm	DC 2-wire NO	10–60 V DC	2 m cable	Nickel-plated brass	Short (K)

Part number	Sensing distance	Output	Supply	Connection	Housing	Length
SGI-GP18S-120DA-C2	12 mm	DC 2-wire NO	10–60 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-120DA-Q4-K	12 mm	DC 2-wire NO	10–60 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-120DA-Q4	12 mm	DC 2-wire NO	10–60 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-120DB-C2-K	12 mm	DC 2-wire NC	10–60 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-120DB-C2	12 mm	DC 2-wire NC	10–60 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-120DB-Q4-K	12 mm	DC 2-wire NC	10–60 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-120DB-Q4	12 mm	DC 2-wire NC	10–60 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-150NA-C2-K	15 mm	NPN NO	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-150NA-C2	15 mm	NPN NO	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-150NA-Q4-K	15 mm	NPN NO	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-150NA-Q4	15 mm	NPN NO	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-150NA-C2-K-V36	15 mm	NPN NO	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-150NA-C2-V36	15 mm	NPN NO	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-150NA-Q4-K-V36	15 mm	NPN NO	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-150NA-Q4-V36	15 mm	NPN NO	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-150NA-C2-K-V55	15 mm	NPN NO	10–55 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-150NA-C2-V55	15 mm	NPN NO	10–55 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-150NA-Q4-K-V55	15 mm	NPN NO	10–55 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-150NA-Q4-V55	15 mm	NPN NO	10–55 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-150NB-C2-K	15 mm	NPN NC	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-150NB-C2	15 mm	NPN NC	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-150NB-Q4-K	15 mm	NPN NC	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-150NB-Q4	15 mm	NPN NC	10–30 V DC	M12 connector	Nickel-plated brass	Standard

Part number	Sensing distance	Output	Supply	Connection	Housing	Length
SGI-GP18S-150NB-C2-K-V36	15 mm	NPN NC	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-150NB-C2-V36	15 mm	NPN NC	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-150NB-Q4-K-V36	15 mm	NPN NC	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-150NB-Q4-V36	15 mm	NPN NC	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-150NB-C2-K-V55	15 mm	NPN NC	10–55 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-150NB-C2-V55	15 mm	NPN NC	10–55 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-150NB-Q4-K-V55	15 mm	NPN NC	10–55 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-150NB-Q4-V55	15 mm	NPN NC	10–55 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-150NC-C2-K	15 mm	NPN NO + NC	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-150NC-C2	15 mm	NPN NO + NC	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-150NC-Q4-K	15 mm	NPN NO + NC	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-150NC-Q4	15 mm	NPN NO + NC	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-150NC-C2-K-V36	15 mm	NPN NO + NC	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-150NC-C2-V36	15 mm	NPN NO + NC	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-150NC-Q4-K-V36	15 mm	NPN NO + NC	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-150NC-Q4-V36	15 mm	NPN NO + NC	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-150PA-C2-K	15 mm	PNP NO	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-150PA-C2	15 mm	PNP NO	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-150PA-Q4-K	15 mm	PNP NO	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-150PA-Q4	15 mm	PNP NO	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-150PA-C2-K-V36	15 mm	PNP NO	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-150PA-C2-V36	15 mm	PNP NO	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-150PA-Q4-K-V36	15 mm	PNP NO	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)

Part number	Sensing distance	Output	Supply	Connection	Housing	Length
SGI-GP18S-150PA-Q4-V36	15 mm	PNP NO	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-150PA-C2-K-V55	15 mm	PNP NO	10–55 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-150PA-C2-V55	15 mm	PNP NO	10–55 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-150PA-Q4-K-V55	15 mm	PNP NO	10–55 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-150PA-Q4-V55	15 mm	PNP NO	10–55 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-150PB-C2-K	15 mm	PNP NC	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-150PB-C2	15 mm	PNP NC	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-150PB-Q4-K	15 mm	PNP NC	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-150PB-Q4	15 mm	PNP NC	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-150PB-C2-K-V36	15 mm	PNP NC	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-150PB-C2-V36	15 mm	PNP NC	5–36 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-150PB-Q4-K-V36	15 mm	PNP NC	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-150PB-Q4-V36	15 mm	PNP NC	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-150PB-C2-K-V55	15 mm	PNP NC	10–55 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-150PB-C2-V55	15 mm	PNP NC	10–55 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-150PB-Q4-K-V55	15 mm	PNP NC	10–55 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-150PB-Q4-V55	15 mm	PNP NC	10–55 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-150PC-C2-K	15 mm	PNP NO + NC	10–30 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-150PC-C2	15 mm	PNP NO + NC	10–30 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-150PC-Q4-K	15 mm	PNP NO + NC	10–30 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-150PC-Q4	15 mm	PNP NO + NC	10–30 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-150PC-C2-K-V36	15 mm	PNP NO + NC	5–36 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-150PC-C2-V36	15 mm	PNP NO + NC	5–36 V DC	2 m cable	Nickel-plated brass	Standard

Part number	Sensing distance	Output	Supply	Connection	Housing	Length
SGI-GP18S-150PC-Q4-K-V36	15 mm	PNP NO + NC	5–36 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-150PC-Q4-V36	15 mm	PNP NO + NC	5–36 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-150DA-C2-K	15 mm	DC 2-wire NO	10–60 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-150DA-C2	15 mm	DC 2-wire NO	10–60 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-150DA-Q4-K	15 mm	DC 2-wire NO	10–60 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-150DA-Q4	15 mm	DC 2-wire NO	10–60 V DC	M12 connector	Nickel-plated brass	Standard
SGI-GP18S-150DB-C2-K	15 mm	DC 2-wire NC	10–60 V DC	2 m cable	Nickel-plated brass	Short (K)
SGI-GP18S-150DB-C2	15 mm	DC 2-wire NC	10–60 V DC	2 m cable	Nickel-plated brass	Standard
SGI-GP18S-150DB-Q4-K	15 mm	DC 2-wire NC	10–60 V DC	M12 connector	Nickel-plated brass	Short (K)
SGI-GP18S-150DB-Q4	15 mm	DC 2-wire NC	10–60 V DC	M12 connector	Nickel-plated brass	Standard

Questions and answers

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 303 part numbers with these rated sensing distances: 5 / 8 / 12 / 15 mm.

Which supply voltages are available?

Supply ranges in this family: 10–30 V DC, 5–36 V DC, 10–55 V DC, 10–60 V DC, 20–250 V AC, 20–250 V AC/DC.

Which connections are available?

Connection options: 2 m cable (155 models), M12 connector (148 models).

Can I order with the SEGMENTSensor 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.

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