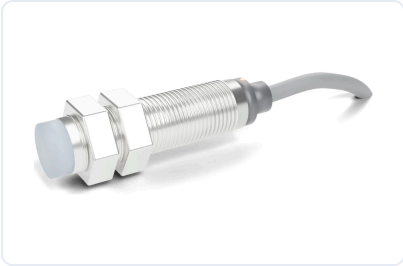


M18 Non-Flush Inductive Proximity Sensors 8–23 mm



Non-flush (unshielded) M18 inductive proximity sensors with nickel-plated brass housings. Four sensing distances, NPN, PNP, DC 2-wire, AC and AC/DC outputs, a 2 m cable or an M12 connector, and standard or short housings: 302 part numbers, each a fixed SEGME**n**sensor order code.

Sensing distance **8 / 16 / 20 / 23 mm** Supply **5 V DC – 250 V AC/DC**
Connection **2 m cable • M12** Part numbers **302**

Key facts

- Rated sensing distances are 8 mm (80 models), 16 mm (79), 20 mm (72) and 23 mm (71).
- NPN and PNP 3-wire models run on 10–30, 5–36 or 10–55 V DC; DC 2-wire models on 10–60 V DC; AC models on 20–250 V AC; AC/DC models on 20–250 V AC/DC.
- Contacts are normally open, normally closed, or NO + NC complementary (64 NPN/PNP models).
- 156 models have a 2 m cable and 146 an M12 connector; 152 are short-housing (K) versions.
- Qualification samples of 1–5 pcs ship in 5–7 days; production is planned around your annual volume.

Family data

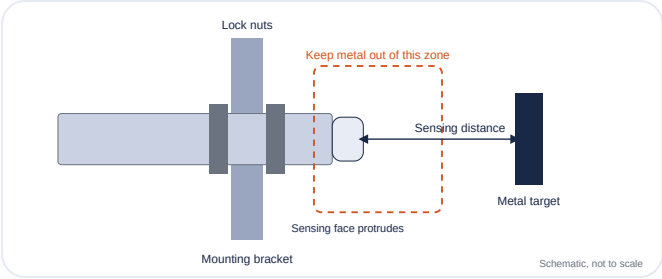
Housing	M18 thread, nickel-plated brass (one PBT model)
Mounting	Non-flush (non-embeddable)
Rated sensing distance	8 / 16 / 20 / 23 mm
Outputs	NPN, PNP (3-wire; NO, NC, NO + NC) • DC 2-wire • AC 2-wire • AC/DC (NO or NC)
Supply	10–30 / 5–36 / 10–55 V DC (NPN/PNP) • 10–60 V DC (2-wire) • 20–250 V AC • 20–250 V AC/DC
Connection	2 m cable or M12 connector
Housing length	Standard or short (K)
Other electrical data	Per part-number datasheet, sent with the quotation

Reading the part number

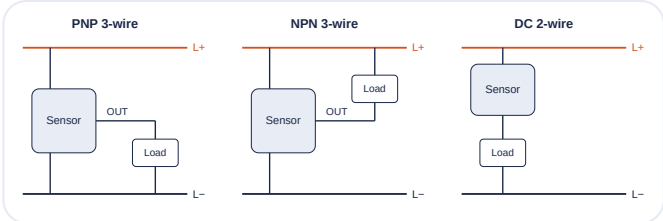
SGI-GP18U-160PA-Q4-K-V36

- | | | | |
|----------------|--|------------|---|
| SGI | SEGME n sensor inductive | GP | General-purpose series |
| 18 • U | M18 housing • non-flush | 160 | Sensing distance in 0.1 mm: 16 mm (080 / 160 / 200 / 230) |
| P • A | PNP • normally open (N = NPN, D = DC 2-wire, J = AC 2-wire, U = AC/DC; B = NC, C = NO + NC) | Q4 | Q4 = M12 connector (C2 = 2 m cable) |
| K • V36 | K = short housing; V36 = 5–36 V DC, V55 = 10–55 V DC (no code = 10–30 V DC for NPN/PNP); 3W = 3-wire cable on AC/DC models; PL = PBT plastic housing | | |

Mounting



Wiring



All part numbers

Part number	Sensing distance	Output	Supply	Connection	Housing
SGI-GP18U-080NA-C2	8 mm	NPN NO	10–30 V DC	2 m cable	Standard
SGI-GP18U-080NA-C2-K	8 mm	NPN NO	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-080NA-Q4	8 mm	NPN NO	10–30 V DC	M12 connector	Standard
SGI-GP18U-080NA-Q4-K	8 mm	NPN NO	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-080NA-C2-V36	8 mm	NPN NO	5–36 V DC	2 m cable	Standard
SGI-GP18U-080NA-C2-K-V36	8 mm	NPN NO	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-080NA-Q4-V36	8 mm	NPN NO	5–36 V DC	M12 connector	Standard
SGI-GP18U-080NA-Q4-K-V36	8 mm	NPN NO	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-080NA-C2-V55	8 mm	NPN NO	10–55 V DC	2 m cable	Standard
SGI-GP18U-080NA-C2-K-V55	8 mm	NPN NO	10–55 V DC	2 m cable	Short (K)
SGI-GP18U-080NA-Q4-V55	8 mm	NPN NO	10–55 V DC	M12 connector	Standard
SGI-GP18U-080NA-Q4-K-V55	8 mm	NPN NO	10–55 V DC	M12 connector	Short (K)
SGI-GP18U-080NB-C2	8 mm	NPN NC	10–30 V DC	2 m cable	Standard
SGI-GP18U-080NB-C2-K	8 mm	NPN NC	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-080NB-Q4	8 mm	NPN NC	10–30 V DC	M12 connector	Standard
SGI-GP18U-080NB-Q4-K	8 mm	NPN NC	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-080NB-C2-V36	8 mm	NPN NC	5–36 V DC	2 m cable	Standard
SGI-GP18U-080NB-C2-K-V36	8 mm	NPN NC	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-080NB-Q4-V36	8 mm	NPN NC	5–36 V DC	M12 connector	Standard
SGI-GP18U-080NB-Q4-K-V36	8 mm	NPN NC	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-080NB-C2-V55	8 mm	NPN NC	10–55 V DC	2 m cable	Standard
SGI-GP18U-080NB-C2-K-V55	8 mm	NPN NC	10–55 V DC	2 m cable	Short (K)
SGI-GP18U-080NB-Q4-V55	8 mm	NPN NC	10–55 V DC	M12 connector	Standard
SGI-GP18U-080NB-Q4-K-V55	8 mm	NPN NC	10–55 V DC	M12 connector	Short (K)
SGI-GP18U-080NC-C2	8 mm	NPN NO + NC	10–30 V DC	2 m cable	Standard
SGI-GP18U-080NC-C2-K	8 mm	NPN NO + NC	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-080NC-Q4	8 mm	NPN NO + NC	10–30 V DC	M12 connector	Standard
SGI-GP18U-080NC-Q4-K	8 mm	NPN NO + NC	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-080NC-C2-V36	8 mm	NPN NO + NC	5–36 V DC	2 m cable	Standard
SGI-GP18U-080NC-C2-K-V36	8 mm	NPN NO + NC	5–36 V DC	2 m cable	Short (K)

Part number	Sensing distance	Output	Supply	Connection	Housing
SGI-GP18U-080NC-Q4-V36	8 mm	NPN NO + NC	5–36 V DC	M12 connector	Standard
SGI-GP18U-080NC-Q4-K-V36	8 mm	NPN NO + NC	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-080PA-C2	8 mm	PNP NO	10–30 V DC	2 m cable	Standard
SGI-GP18U-080PA-C2-K	8 mm	PNP NO	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-080PA-Q4	8 mm	PNP NO	10–30 V DC	M12 connector	Standard
SGI-GP18U-080PA-Q4-K	8 mm	PNP NO	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-080PA-C2-V36	8 mm	PNP NO	5–36 V DC	2 m cable	Standard
SGI-GP18U-080PA-C2-K-V36	8 mm	PNP NO	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-080PA-Q4-V36	8 mm	PNP NO	5–36 V DC	M12 connector	Standard
SGI-GP18U-080PA-Q4-K-V36	8 mm	PNP NO	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-080PA-C2-V55	8 mm	PNP NO	10–55 V DC	2 m cable	Standard
SGI-GP18U-080PA-C2-K-V55	8 mm	PNP NO	10–55 V DC	2 m cable	Short (K)
SGI-GP18U-080PA-Q4-V55	8 mm	PNP NO	10–55 V DC	M12 connector	Standard
SGI-GP18U-080PA-Q4-K-V55	8 mm	PNP NO	10–55 V DC	M12 connector	Short (K)
SGI-GP18U-080PB-C2	8 mm	PNP NC	10–30 V DC	2 m cable	Standard
SGI-GP18U-080PB-C2-K	8 mm	PNP NC	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-080PB-Q4	8 mm	PNP NC	10–30 V DC	M12 connector	Standard
SGI-GP18U-080PB-Q4-K	8 mm	PNP NC	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-080PB-C2-V36	8 mm	PNP NC	5–36 V DC	2 m cable	Standard
SGI-GP18U-080PB-C2-K-V36	8 mm	PNP NC	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-080PB-Q4-V36	8 mm	PNP NC	5–36 V DC	M12 connector	Standard
SGI-GP18U-080PB-Q4-K-V36	8 mm	PNP NC	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-080PB-C2-V55	8 mm	PNP NC	10–55 V DC	2 m cable	Standard
SGI-GP18U-080PB-C2-K-V55	8 mm	PNP NC	10–55 V DC	2 m cable	Short (K)
SGI-GP18U-080PB-Q4-V55	8 mm	PNP NC	10–55 V DC	M12 connector	Standard
SGI-GP18U-080PB-Q4-K-V55	8 mm	PNP NC	10–55 V DC	M12 connector	Short (K)
SGI-GP18U-080PC-C2	8 mm	PNP NO + NC	10–30 V DC	2 m cable	Standard
SGI-GP18U-080PC-C2-K	8 mm	PNP NO + NC	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-080PC-Q4	8 mm	PNP NO + NC	10–30 V DC	M12 connector	Standard
SGI-GP18U-080PC-Q4-K	8 mm	PNP NO + NC	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-080PC-C2-V36	8 mm	PNP NO + NC	5–36 V DC	2 m cable	Standard
SGI-GP18U-080PC-C2-K-V36	8 mm	PNP NO + NC	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-080PC-Q4-V36	8 mm	PNP NO + NC	5–36 V DC	M12 connector	Standard
SGI-GP18U-080PC-Q4-K-V36	8 mm	PNP NO + NC	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-080DA-C2	8 mm	DC 2-wire NO	10–60 V DC	2 m cable	Standard
SGI-GP18U-080DA-C2-K	8 mm	DC 2-wire NO	10–60 V DC	2 m cable	Short (K)
SGI-GP18U-080DA-Q4	8 mm	DC 2-wire NO	10–60 V DC	M12 connector	Standard
SGI-GP18U-080DA-Q4-K	8 mm	DC 2-wire NO	10–60 V DC	M12 connector	Short (K)
SGI-GP18U-080DB-C2	8 mm	DC 2-wire NC	10–60 V DC	2 m cable	Standard
SGI-GP18U-080DB-C2-K	8 mm	DC 2-wire NC	10–60 V DC	2 m cable	Short (K)

Part number	Sensing distance	Output	Supply	Connection	Housing
SGI-GP18U-080DB-Q4	8 mm	DC 2-wire NC	10–60 V DC	M12 connector	Standard
SGI-GP18U-080DB-Q4-K	8 mm	DC 2-wire NC	10–60 V DC	M12 connector	Short (K)
SGI-GP18U-080JA-C2-K	8 mm	AC 2-wire NO	20–250 V AC	2 m cable	Short (K)
SGI-GP18U-080JB-C2-K	8 mm	AC 2-wire NC	20–250 V AC	2 m cable	Short (K)
SGI-GP18U-080UA-C2-3W	8 mm	AC/DC NO	20–250 V AC/DC	2 m cable (3-wire)	Standard
SGI-GP18U-080UA-C2-K-3W	8 mm	AC/DC NO	20–250 V AC/DC	2 m cable (3-wire)	Short (K)
SGI-GP18U-080UA-Q4	8 mm	AC/DC NO	20–250 V AC/DC	M12 connector	Standard
SGI-GP18U-080UB-C2-3W	8 mm	AC/DC NC	20–250 V AC/DC	2 m cable (3-wire)	Standard
SGI-GP18U-080UB-C2-K-3W	8 mm	AC/DC NC	20–250 V AC/DC	2 m cable (3-wire)	Short (K)
SGI-GP18U-080UB-Q4	8 mm	AC/DC NC	20–250 V AC/DC	M12 connector	Standard
SGI-GP18U-160NA-C2	16 mm	NPN NO	10–30 V DC	2 m cable	Standard
SGI-GP18U-160NA-C2-K	16 mm	NPN NO	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-160NA-Q4	16 mm	NPN NO	10–30 V DC	M12 connector	Standard
SGI-GP18U-160NA-Q4-K	16 mm	NPN NO	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-160NA-C2-V36	16 mm	NPN NO	5–36 V DC	2 m cable	Standard
SGI-GP18U-160NA-C2-K-V36	16 mm	NPN NO	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-160NA-Q4-V36	16 mm	NPN NO	5–36 V DC	M12 connector	Standard
SGI-GP18U-160NA-Q4-K-V36	16 mm	NPN NO	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-160NA-C2-V55	16 mm	NPN NO	10–55 V DC	2 m cable	Standard
SGI-GP18U-160NA-C2-K-V55	16 mm	NPN NO	10–55 V DC	2 m cable	Short (K)
SGI-GP18U-160NA-Q4-V55	16 mm	NPN NO	10–55 V DC	M12 connector	Standard
SGI-GP18U-160NA-Q4-K-V55	16 mm	NPN NO	10–55 V DC	M12 connector	Short (K)
SGI-GP18U-160NB-C2	16 mm	NPN NC	10–30 V DC	2 m cable	Standard
SGI-GP18U-160NB-C2-K	16 mm	NPN NC	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-160NB-Q4	16 mm	NPN NC	10–30 V DC	M12 connector	Standard
SGI-GP18U-160NB-Q4-K	16 mm	NPN NC	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-160NB-C2-V36	16 mm	NPN NC	5–36 V DC	2 m cable	Standard
SGI-GP18U-160NB-C2-K-V36	16 mm	NPN NC	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-160NB-Q4-V36	16 mm	NPN NC	5–36 V DC	M12 connector	Standard
SGI-GP18U-160NB-Q4-K-V36	16 mm	NPN NC	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-160NB-C2-V55	16 mm	NPN NC	10–55 V DC	2 m cable	Standard
SGI-GP18U-160NB-C2-K-V55	16 mm	NPN NC	10–55 V DC	2 m cable	Short (K)
SGI-GP18U-160NB-Q4-V55	16 mm	NPN NC	10–55 V DC	M12 connector	Standard
SGI-GP18U-160NB-Q4-K-V55	16 mm	NPN NC	10–55 V DC	M12 connector	Short (K)
SGI-GP18U-160NC-C2	16 mm	NPN NO + NC	10–30 V DC	2 m cable	Standard
SGI-GP18U-160NC-C2-K	16 mm	NPN NO + NC	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-160NC-Q4	16 mm	NPN NO + NC	10–30 V DC	M12 connector	Standard
SGI-GP18U-160NC-Q4-K	16 mm	NPN NO + NC	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-160NC-C2-V36	16 mm	NPN NO + NC	5–36 V DC	2 m cable	Standard
SGI-GP18U-160NC-C2-K-V36	16 mm	NPN NO + NC	5–36 V DC	2 m cable	Short (K)

Part number	Sensing distance	Output	Supply	Connection	Housing
SGI-GP18U-160NC-Q4-V36	16 mm	NPN NO + NC	5–36 V DC	M12 connector	Standard
SGI-GP18U-160NC-Q4-K-V36	16 mm	NPN NO + NC	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-160PA-C2	16 mm	PNP NO	10–30 V DC	2 m cable	Standard
SGI-GP18U-160PA-C2-K	16 mm	PNP NO	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-160PA-Q4	16 mm	PNP NO	10–30 V DC	M12 connector	Standard
SGI-GP18U-160PA-Q4-K	16 mm	PNP NO	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-160PA-C2-V36	16 mm	PNP NO	5–36 V DC	2 m cable	Standard
SGI-GP18U-160PA-C2-K-V36	16 mm	PNP NO	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-160PA-Q4-V36	16 mm	PNP NO	5–36 V DC	M12 connector	Standard
SGI-GP18U-160PA-Q4-K-V36	16 mm	PNP NO	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-160PA-C2-V55	16 mm	PNP NO	10–55 V DC	2 m cable	Standard
SGI-GP18U-160PA-C2-K-V55	16 mm	PNP NO	10–55 V DC	2 m cable	Short (K)
SGI-GP18U-160PA-Q4-V55	16 mm	PNP NO	10–55 V DC	M12 connector	Standard
SGI-GP18U-160PA-Q4-K-V55	16 mm	PNP NO	10–55 V DC	M12 connector	Short (K)
SGI-GP18U-160PB-C2	16 mm	PNP NC	10–30 V DC	2 m cable	Standard
SGI-GP18U-160PB-C2-K	16 mm	PNP NC	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-160PB-Q4	16 mm	PNP NC	10–30 V DC	M12 connector	Standard
SGI-GP18U-160PB-Q4-K	16 mm	PNP NC	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-160PB-C2-V36	16 mm	PNP NC	5–36 V DC	2 m cable	Standard
SGI-GP18U-160PB-C2-K-V36	16 mm	PNP NC	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-160PB-Q4-V36	16 mm	PNP NC	5–36 V DC	M12 connector	Standard
SGI-GP18U-160PB-Q4-K-V36	16 mm	PNP NC	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-160PB-C2-V55	16 mm	PNP NC	10–55 V DC	2 m cable	Standard
SGI-GP18U-160PB-C2-K-V55	16 mm	PNP NC	10–55 V DC	2 m cable	Short (K)
SGI-GP18U-160PB-Q4-V55	16 mm	PNP NC	10–55 V DC	M12 connector	Standard
SGI-GP18U-160PB-Q4-K-V55	16 mm	PNP NC	10–55 V DC	M12 connector	Short (K)
SGI-GP18U-160PC-C2	16 mm	PNP NO + NC	10–30 V DC	2 m cable	Standard
SGI-GP18U-160PC-C2-K	16 mm	PNP NO + NC	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-160PC-Q4	16 mm	PNP NO + NC	10–30 V DC	M12 connector	Standard
SGI-GP18U-160PC-Q4-K	16 mm	PNP NO + NC	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-160PC-C2-V36	16 mm	PNP NO + NC	5–36 V DC	2 m cable	Standard
SGI-GP18U-160PC-C2-K-V36	16 mm	PNP NO + NC	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-160PC-Q4-V36	16 mm	PNP NO + NC	5–36 V DC	M12 connector	Standard
SGI-GP18U-160PC-Q4-K-V36	16 mm	PNP NO + NC	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-160DA-C2	16 mm	DC 2-wire NO	10–60 V DC	2 m cable	Standard
SGI-GP18U-160DA-C2-K	16 mm	DC 2-wire NO	10–60 V DC	2 m cable	Short (K)
SGI-GP18U-160DA-Q4	16 mm	DC 2-wire NO	10–60 V DC	M12 connector	Standard
SGI-GP18U-160DA-Q4-K	16 mm	DC 2-wire NO	10–60 V DC	M12 connector	Short (K)
SGI-GP18U-160DB-C2	16 mm	DC 2-wire NC	10–60 V DC	2 m cable	Standard
SGI-GP18U-160DB-C2-K	16 mm	DC 2-wire NC	10–60 V DC	2 m cable	Short (K)

Part number	Sensing distance	Output	Supply	Connection	Housing
SGI-GP18U-160DB-Q4-K	16 mm	DC 2-wire NC	10–60 V DC	M12 connector	Short (K)
SGI-GP18U-160JA-C2-K	16 mm	AC 2-wire NO	20–250 V AC	2 m cable	Short (K)
SGI-GP18U-160JB-C2-K	16 mm	AC 2-wire NC	20–250 V AC	2 m cable	Short (K)
SGI-GP18U-160UA-C2-3W	16 mm	AC/DC NO	20–250 V AC/DC	2 m cable (3-wire)	Standard
SGI-GP18U-160UA-C2-K-3W	16 mm	AC/DC NO	20–250 V AC/DC	2 m cable (3-wire)	Short (K)
SGI-GP18U-160UA-Q4	16 mm	AC/DC NO	20–250 V AC/DC	M12 connector	Standard
SGI-GP18U-160UB-C2-3W	16 mm	AC/DC NC	20–250 V AC/DC	2 m cable (3-wire)	Standard
SGI-GP18U-160UB-C2-K-3W	16 mm	AC/DC NC	20–250 V AC/DC	2 m cable (3-wire)	Short (K)
SGI-GP18U-160UB-Q4	16 mm	AC/DC NC	20–250 V AC/DC	M12 connector	Standard
SGI-GP18U-200NA-C2	20 mm	NPN NO	10–30 V DC	2 m cable	Standard
SGI-GP18U-200NA-C2-K-PL	20 mm	NPN NO	10–30 V DC	2 m cable	Short (K), PBT
SGI-GP18U-200NA-Q4	20 mm	NPN NO	10–30 V DC	M12 connector	Standard
SGI-GP18U-200NA-Q4-K	20 mm	NPN NO	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-200NA-C2-V36	20 mm	NPN NO	5–36 V DC	2 m cable	Standard
SGI-GP18U-200NA-C2-K-V36	20 mm	NPN NO	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-200NA-Q4-V36	20 mm	NPN NO	5–36 V DC	M12 connector	Standard
SGI-GP18U-200NA-Q4-K-V36	20 mm	NPN NO	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-200NA-C2-V55	20 mm	NPN NO	10–55 V DC	2 m cable	Standard
SGI-GP18U-200NA-C2-K-V55	20 mm	NPN NO	10–55 V DC	2 m cable	Short (K)
SGI-GP18U-200NA-Q4-V55	20 mm	NPN NO	10–55 V DC	M12 connector	Standard
SGI-GP18U-200NA-Q4-K-V55	20 mm	NPN NO	10–55 V DC	M12 connector	Short (K)
SGI-GP18U-200NB-C2	20 mm	NPN NC	10–30 V DC	2 m cable	Standard
SGI-GP18U-200NB-C2-K	20 mm	NPN NC	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-200NB-Q4	20 mm	NPN NC	10–30 V DC	M12 connector	Standard
SGI-GP18U-200NB-Q4-K	20 mm	NPN NC	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-200NB-C2-V36	20 mm	NPN NC	5–36 V DC	2 m cable	Standard
SGI-GP18U-200NB-C2-K-V36	20 mm	NPN NC	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-200NB-Q4-V36	20 mm	NPN NC	5–36 V DC	M12 connector	Standard
SGI-GP18U-200NB-Q4-K-V36	20 mm	NPN NC	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-200NB-C2-V55	20 mm	NPN NC	10–55 V DC	2 m cable	Standard
SGI-GP18U-200NB-C2-K-V55	20 mm	NPN NC	10–55 V DC	2 m cable	Short (K)
SGI-GP18U-200NB-Q4-V55	20 mm	NPN NC	10–55 V DC	M12 connector	Standard
SGI-GP18U-200NB-Q4-K-V55	20 mm	NPN NC	10–55 V DC	M12 connector	Short (K)
SGI-GP18U-200NC-C2	20 mm	NPN NO + NC	10–30 V DC	2 m cable	Standard
SGI-GP18U-200NC-C2-K	20 mm	NPN NO + NC	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-200NC-Q4	20 mm	NPN NO + NC	10–30 V DC	M12 connector	Standard
SGI-GP18U-200NC-Q4-K	20 mm	NPN NO + NC	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-200NC-C2-V36	20 mm	NPN NO + NC	5–36 V DC	2 m cable	Standard
SGI-GP18U-200NC-C2-K-V36	20 mm	NPN NO + NC	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-200NC-Q4-V36	20 mm	NPN NO + NC	5–36 V DC	M12 connector	Standard

Part number	Sensing distance	Output	Supply	Connection	Housing
SGI-GP18U-200NC-Q4-K-V36	20 mm	NPN NO + NC	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-200PA-C2	20 mm	PNP NO	10–30 V DC	2 m cable	Standard
SGI-GP18U-200PA-C2-K	20 mm	PNP NO	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-200PA-Q4	20 mm	PNP NO	10–30 V DC	M12 connector	Standard
SGI-GP18U-200PA-Q4-K	20 mm	PNP NO	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-200PA-C2-V36	20 mm	PNP NO	5–36 V DC	2 m cable	Standard
SGI-GP18U-200PA-C2-K-V36	20 mm	PNP NO	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-200PA-Q4-V36	20 mm	PNP NO	5–36 V DC	M12 connector	Standard
SGI-GP18U-200PA-Q4-K-V36	20 mm	PNP NO	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-200PA-C2-V55	20 mm	PNP NO	10–55 V DC	2 m cable	Standard
SGI-GP18U-200PA-C2-K-V55	20 mm	PNP NO	10–55 V DC	2 m cable	Short (K)
SGI-GP18U-200PA-Q4-V55	20 mm	PNP NO	10–55 V DC	M12 connector	Standard
SGI-GP18U-200PA-Q4-K-V55	20 mm	PNP NO	10–55 V DC	M12 connector	Short (K)
SGI-GP18U-200PB-C2	20 mm	PNP NC	10–30 V DC	2 m cable	Standard
SGI-GP18U-200PB-C2-K	20 mm	PNP NC	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-200PB-Q4	20 mm	PNP NC	10–30 V DC	M12 connector	Standard
SGI-GP18U-200PB-Q4-K	20 mm	PNP NC	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-200PB-C2-V36	20 mm	PNP NC	5–36 V DC	2 m cable	Standard
SGI-GP18U-200PB-C2-K-V36	20 mm	PNP NC	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-200PB-Q4-V36	20 mm	PNP NC	5–36 V DC	M12 connector	Standard
SGI-GP18U-200PB-Q4-K-V36	20 mm	PNP NC	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-200PB-C2-V55	20 mm	PNP NC	10–55 V DC	2 m cable	Standard
SGI-GP18U-200PB-C2-K-V55	20 mm	PNP NC	10–55 V DC	2 m cable	Short (K)
SGI-GP18U-200PB-Q4-V55	20 mm	PNP NC	10–55 V DC	M12 connector	Standard
SGI-GP18U-200PB-Q4-K-V55	20 mm	PNP NC	10–55 V DC	M12 connector	Short (K)
SGI-GP18U-200PC-C2	20 mm	PNP NO + NC	10–30 V DC	2 m cable	Standard
SGI-GP18U-200PC-C2-K	20 mm	PNP NO + NC	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-200PC-Q4	20 mm	PNP NO + NC	10–30 V DC	M12 connector	Standard
SGI-GP18U-200PC-Q4-K	20 mm	PNP NO + NC	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-200PC-C2-V36	20 mm	PNP NO + NC	5–36 V DC	2 m cable	Standard
SGI-GP18U-200PC-C2-K-V36	20 mm	PNP NO + NC	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-200PC-Q4-V36	20 mm	PNP NO + NC	5–36 V DC	M12 connector	Standard
SGI-GP18U-200PC-Q4-K-V36	20 mm	PNP NO + NC	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-200DA-C2	20 mm	DC 2-wire NO	10–60 V DC	2 m cable	Standard
SGI-GP18U-200DA-C2-K	20 mm	DC 2-wire NO	10–60 V DC	2 m cable	Short (K)
SGI-GP18U-200DA-Q4	20 mm	DC 2-wire NO	10–60 V DC	M12 connector	Standard
SGI-GP18U-200DA-Q4-K	20 mm	DC 2-wire NO	10–60 V DC	M12 connector	Short (K)
SGI-GP18U-200DB-C2	20 mm	DC 2-wire NC	10–60 V DC	2 m cable	Standard
SGI-GP18U-200DB-C2-K	20 mm	DC 2-wire NC	10–60 V DC	2 m cable	Short (K)
SGI-GP18U-200DB-Q4	20 mm	DC 2-wire NC	10–60 V DC	M12 connector	Standard

Part number	Sensing distance	Output	Supply	Connection	Housing
SGI-GP18U-200DB-Q4-K	20 mm	DC 2-wire NC	10–60 V DC	M12 connector	Short (K)
SGI-GP18U-230NA-C2	23 mm	NPN NO	10–30 V DC	2 m cable	Standard
SGI-GP18U-230NA-C2-K	23 mm	NPN NO	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-230NA-Q4	23 mm	NPN NO	10–30 V DC	M12 connector	Standard
SGI-GP18U-230NA-Q4-K	23 mm	NPN NO	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-230NA-C2-V36	23 mm	NPN NO	5–36 V DC	2 m cable	Standard
SGI-GP18U-230NA-C2-K-V36	23 mm	NPN NO	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-230NA-Q4-V36	23 mm	NPN NO	5–36 V DC	M12 connector	Standard
SGI-GP18U-230NA-Q4-K-V36	23 mm	NPN NO	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-230NA-C2-V55	23 mm	NPN NO	10–55 V DC	2 m cable	Standard
SGI-GP18U-230NA-C2-K-V55	23 mm	NPN NO	10–55 V DC	2 m cable	Short (K)
SGI-GP18U-230NA-Q4-V55	23 mm	NPN NO	10–55 V DC	M12 connector	Standard
SGI-GP18U-230NA-Q4-K-V55	23 mm	NPN NO	10–55 V DC	M12 connector	Short (K)
SGI-GP18U-230NB-C2	23 mm	NPN NC	10–30 V DC	2 m cable	Standard
SGI-GP18U-230NB-C2-K	23 mm	NPN NC	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-230NB-Q4	23 mm	NPN NC	10–30 V DC	M12 connector	Standard
SGI-GP18U-230NB-Q4-K	23 mm	NPN NC	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-230NB-C2-V36	23 mm	NPN NC	5–36 V DC	2 m cable	Standard
SGI-GP18U-230NB-C2-K-V36	23 mm	NPN NC	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-230NB-Q4-V36	23 mm	NPN NC	5–36 V DC	M12 connector	Standard
SGI-GP18U-230NB-Q4-K-V36	23 mm	NPN NC	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-230NB-C2-V55	23 mm	NPN NC	10–55 V DC	2 m cable	Standard
SGI-GP18U-230NB-C2-K-V55	23 mm	NPN NC	10–55 V DC	2 m cable	Short (K)
SGI-GP18U-230NB-Q4-V55	23 mm	NPN NC	10–55 V DC	M12 connector	Standard
SGI-GP18U-230NB-Q4-K-V55	23 mm	NPN NC	10–55 V DC	M12 connector	Short (K)
SGI-GP18U-230NC-C2	23 mm	NPN NO + NC	10–30 V DC	2 m cable	Standard
SGI-GP18U-230NC-C2-K	23 mm	NPN NO + NC	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-230NC-Q4	23 mm	NPN NO + NC	10–30 V DC	M12 connector	Standard
SGI-GP18U-230NC-Q4-K	23 mm	NPN NO + NC	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-230NC-C2-V36	23 mm	NPN NO + NC	5–36 V DC	2 m cable	Standard
SGI-GP18U-230NC-C2-K-V36	23 mm	NPN NO + NC	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-230NC-Q4-V36	23 mm	NPN NO + NC	5–36 V DC	M12 connector	Standard
SGI-GP18U-230NC-Q4-K-V36	23 mm	NPN NO + NC	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-230PA-C2	23 mm	PNP NO	10–30 V DC	2 m cable	Standard
SGI-GP18U-230PA-C2-K	23 mm	PNP NO	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-230PA-Q4	23 mm	PNP NO	10–30 V DC	M12 connector	Standard
SGI-GP18U-230PA-Q4-K	23 mm	PNP NO	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-230PA-C2-V36	23 mm	PNP NO	5–36 V DC	2 m cable	Standard
SGI-GP18U-230PA-C2-K-V36	23 mm	PNP NO	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-230PA-Q4-V36	23 mm	PNP NO	5–36 V DC	M12 connector	Standard

Part number	Sensing distance	Output	Supply	Connection	Housing
SGI-GP18U-230PA-Q4-K-V36	23 mm	PNP NO	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-230PA-C2-V55	23 mm	PNP NO	10–55 V DC	2 m cable	Standard
SGI-GP18U-230PA-C2-K-V55	23 mm	PNP NO	10–55 V DC	2 m cable	Short (K)
SGI-GP18U-230PA-Q4-V55	23 mm	PNP NO	10–55 V DC	M12 connector	Standard
SGI-GP18U-230PA-Q4-K-V55	23 mm	PNP NO	10–55 V DC	M12 connector	Short (K)
SGI-GP18U-230PB-C2	23 mm	PNP NC	10–30 V DC	2 m cable	Standard
SGI-GP18U-230PB-C2-K	23 mm	PNP NC	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-230PB-Q4	23 mm	PNP NC	10–30 V DC	M12 connector	Standard
SGI-GP18U-230PB-Q4-K	23 mm	PNP NC	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-230PB-C2-V36	23 mm	PNP NC	5–36 V DC	2 m cable	Standard
SGI-GP18U-230PB-C2-K-V36	23 mm	PNP NC	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-230PB-Q4-V36	23 mm	PNP NC	5–36 V DC	M12 connector	Standard
SGI-GP18U-230PB-Q4-K-V36	23 mm	PNP NC	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-230PB-C2-V55	23 mm	PNP NC	10–55 V DC	2 m cable	Standard
SGI-GP18U-230PB-C2-K-V55	23 mm	PNP NC	10–55 V DC	2 m cable	Short (K)
SGI-GP18U-230PB-Q4-V55	23 mm	PNP NC	10–55 V DC	M12 connector	Standard
SGI-GP18U-230PB-Q4-K-V55	23 mm	PNP NC	10–55 V DC	M12 connector	Short (K)
SGI-GP18U-230PC-C2	23 mm	PNP NO + NC	10–30 V DC	2 m cable	Standard
SGI-GP18U-230PC-C2-K	23 mm	PNP NO + NC	10–30 V DC	2 m cable	Short (K)
SGI-GP18U-230PC-Q4	23 mm	PNP NO + NC	10–30 V DC	M12 connector	Standard
SGI-GP18U-230PC-Q4-K	23 mm	PNP NO + NC	10–30 V DC	M12 connector	Short (K)
SGI-GP18U-230PC-C2-V36	23 mm	PNP NO + NC	5–36 V DC	2 m cable	Standard
SGI-GP18U-230PC-C2-K-V36	23 mm	PNP NO + NC	5–36 V DC	2 m cable	Short (K)
SGI-GP18U-230PC-Q4-V36	23 mm	PNP NO + NC	5–36 V DC	M12 connector	Standard
SGI-GP18U-230PC-Q4-K-V36	23 mm	PNP NO + NC	5–36 V DC	M12 connector	Short (K)
SGI-GP18U-230DA-C2	23 mm	DC 2-wire NO	10–60 V DC	2 m cable	Standard
SGI-GP18U-230DA-C2-K	23 mm	DC 2-wire NO	10–60 V DC	2 m cable	Short (K)
SGI-GP18U-230DA-Q4	23 mm	DC 2-wire NO	10–60 V DC	M12 connector	Standard
SGI-GP18U-230DA-Q4-K	23 mm	DC 2-wire NO	10–60 V DC	M12 connector	Short (K)
SGI-GP18U-230DB-C2	23 mm	DC 2-wire NC	10–60 V DC	2 m cable	Standard
SGI-GP18U-230DB-C2-K	23 mm	DC 2-wire NC	10–60 V DC	2 m cable	Short (K)
SGI-GP18U-230DB-Q4-K	23 mm	DC 2-wire NC	10–60 V DC	M12 connector	Short (K)

Questions and answers

What is the difference between a flush and a non-flush M18 proximity sensor?

A flush (shielded) sensor can be mounted level with the surrounding metal. A non-flush (unshielded) sensor has a protruding sensing face and needs a metal-free zone around it, but reaches further. In SEGMENT sensor data, M18 flush models are rated 5–15 mm and M18 non-flush models 8–23 mm.

Which sensing distances are available for M18 non-flush sensors?

Four rated sensing distances: 8 mm (80 models), 16 mm (79), 20 mm (72) and 23 mm (71). The distance is the three digits after the housing code in the part number, in 0.1 mm.

Which supply voltages are available?

NPN and PNP 3-wire models are available for 10–30 V DC, 5–36 V DC or 10–55 V DC. DC 2-wire models run on 10–60 V DC, AC 2-wire models on 20–250 V AC, and AC/DC models on 20–250 V AC/DC.

Should I choose a cable or an M12 connector?

Choose the 2 m cable (156 models) for a fixed installation wired directly into a junction box. Choose the M12 connector (146 models) when the sensor must be replaced quickly without rewiring, using a separate M12 cordset.

What is the short-housing (K) version?

Part numbers with -K have a shorter housing for installations with limited depth behind the mounting bracket. 152 of the 302 models are short-housing versions; the housing length of each part number is on its dimension drawing.

Can I order with the SEGMENTSensor part number?

Yes. Each SGI-GP18U 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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