S50-MA - Straight M18 Photoelectric Sensor



- M18 barrel housing
- Embedded cable or M12 connector
- IP67 Nickel plated brass housing
- PNP or NPN output

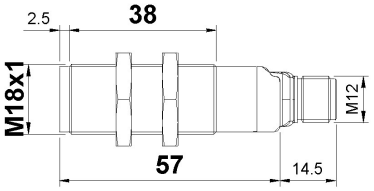
Area of application

The S50 metal series of photoelectric sensors offers a wide range of optic functions including, retro reflective, diffuse proximity, background suppression and through beam. They are available with both LED and laser emission, radial and axial optic models with 2m embedded cable or M12 connection in nickel plated brass housing. This sensor offers excellent solutions for all industrial applications.

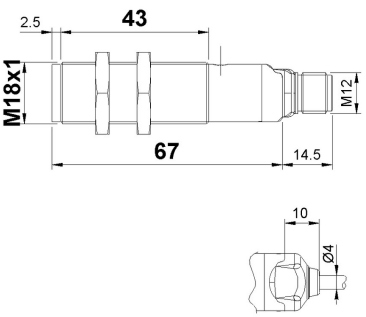
Features & Benefits

- Wide range suitable for all the industrial applications
- Laser models for precise reading
- Cable or M12 connection
- Nickel plated brass housing for IP67 protection Applications
- Automatic machines
- Packaging lines
- Transportation lines
- Automatic warehousesDownload the datasheet

Dimensions



Drawing 1



Drawing 2

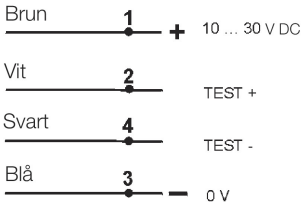




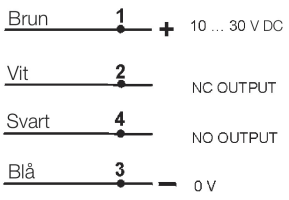
With embedded 2 m cable,
measured on key handle.

Connection

Embedded cable

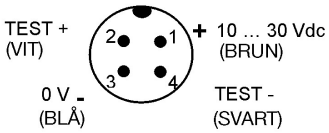


Transmitter

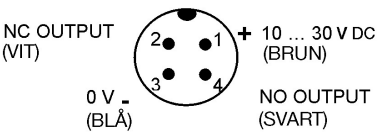


Other technologies

M12 contact



Transmitter



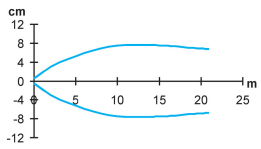
Other technologies

Technical data

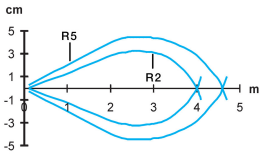
General technical data	
Supply voltage	10-30 V DC ripple ≤ 2 Vpp
Power consumption	≤35 mA
LED indication	Yellow LED indicates output Green LED indicates satisfactory detection
Light/dark on	Selectable by output
Temperature range	-25 °C to +55 °C
Enclosure degree	IP67
Enclosure material	Housing: nickel-plated brass, Lens: PMMA
Connection	2 m cable or M12 4-pin contact (-J)
Approvals	

NOTE: Reflectors and brackets are ordered separately.

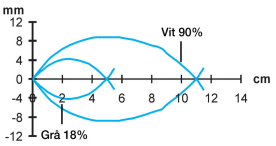
Scatter beams



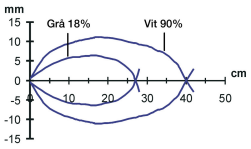
Transmitter/receiver
S50-MA-X-G00-XG/S50-MA-X-F01-PP



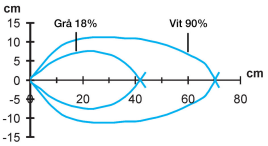
To pol. refl. S50-MA-X-B01-PP



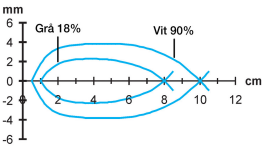
Direct detecting 100 mm
S50-MA-X-C10-PP



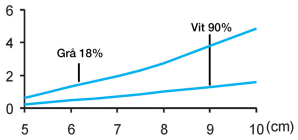
Direct detecting 400 mm
S50-MA-X-C21-PP



Direct detecting 700 mm
S50-MA-X-C01-PP



Fixed focus S50-MA-X-D00-PP



Direct detecting Dimmed-background
S50-MA-X-M03-PP

Part numbers

Order Code	Part numbers and description
952022090	S50-MA-2-A00-NN METAL RETROREFLEX, NO/NC, NPN OUTPUT WITH CABLE

952022080 S50-MA-2-A00-PP METAL RETROREFLEX, NO/NC, PNP OUTPUT WITH CABLE
952021500 S50-MA-2-B01-NN METAL POLARISED RETROREFLEX, NO/NC, NPN OUTPUT WITH CABLE
952021000 S50-MA-2-B01-PP METAL POLARISED RETROREFLEX, NO/NC, PNP OUTPUT WITH CABLE
952021510 S50-MA-2-C01-NN METAL LONG PROXIMITY, NO/NC, NPN OUTPUT WITH CABLE
952021010 S50-MA-2-C01-PP METAL LONG PROXIMITY, NO/NC, PNP OUTPUT WITH CABLE
952021520 S50-MA-2-C10-NN METAL SHORT PROXIMITY,NO/NC, NPN OUTPUT WITH CABLE
952021020 S50-MA-2-C10-PP METAL SHORT PROXIMITY, NO/NC, PNP OUTPUT WITH CABLE
952022130 S50-MA-2-C21-NN METAL MEDIUM PROXIMITY, NO/NC, NPN OUTPUT WITH CABLE
952022120 S50-MA-2-C21-PP METAL MEDIUM PROXIMITY, NO/NC, PNP OUTPUT WITH CABLE
952021530 S50-MA-2-D00-NN METAL FIXED FOCUS PROXIMITY, NO/NC, NPN OUTPUT WITH CABLE
952021030 S50-MA-2-D00-PP METAL FIXED FOCUS PROXIMITY, NO/NC, PNP OUTPUT WITH CABLE
952021880 S50-MA-2-E01-NN METAL FIBRE OPTIC AMPLIFIER, NO/NC NPN OUTPUT WITH CABLE
952021040 S50-MA-2-E01-PP METAL FIBRE OPTIC AMPLIFIER, NO/NC, PNP OUTPUT WITH CABLE
952021540 S50-MA-2-F01-NN METAL RECEIVER, NO/NC, NPN OUTPUT WITH CABLE
952021050 S50-MA-2-F01-PP METAL RECEIVER, NO/NC, PNP OUTPUT WITH CABLE
952021060 S50-MA-2-G00-XG METAL EMITTER WITH CABLE
952021550 S50-MA-2-M03-NN METAL BACKGROUND SUPPRESSION, NO/NC NPN OUTPUT WITH CABLE
952021070 S50-MA-2-M03-PP METAL BACKGROUND SUPPRESSION, NO/NC, PNP OUTPUT WITH CABLE
952021570 S50-MA-2-T01-NN METAL TRANSPARENT RETROREFLEX, NO/NC, NPN OUTPUT WITH CABLE
952021090 S50-MA-2-T01-PP METAL TRANSPARENT RETROREFLEX, NO/NC, PNP OUTPUT WITH CABLE
952021110 S50-MA-2-W03-PP METAL CONTRAST, NO/NC, PNP OUTPUT WITH CABLE
952022110 S50-MA-5-A00-NN METAL RETROREFLEX, NO/NC, NPN OUTPUT WITH M12 CONNECTOR
952022100 S50-MA-5-A00-PP METAL RETROREFLEX, NO/NC, PNP OUTPUT WITH M12 CONNECTOR
952021660 S50-MA-5-B01-NN METAL POLARISED RETROREFLEX, NO/NC, NPN OUTPUT WITH M12 CONNECTOR
952021200 S50-MA-5-B01-PP METAL POLARISED RETROREFLEX, NO/NC, PNP OUTPUT WITH M12 CONNECTOR
952021670 S50-MA-5-C01-NN METAL LONG PROXIMITY, NO/NC, NPN OUTPUT WITH M12 CONNECTOR
952021210 S50-MA-5-C01-PP METAL LONG PROXIMITY, NO/NC, PNP OUTPUT WITH M12 CONNECTOR
952021680 S50-MA-5-C10-NN METAL SHORT PROXIMITY, NO/NC, NPN OUTPUT WITH M12 CONNECTOR
952021220 S50-MA-5-C10-PP METAL SHORT PROXIMITY, NO/NC, PNP OUTPUT WITH M12 CONNECTOR
952022150 S50-MA-5-C21-NN METAL MEDIUM PROXIMITY, NO/NC, NPN OUTPUT WITH M12 CONNECTOR
952022140 S50-MA-5-C21-PP METAL MEDIUM PROXIMITY, NO/NC, PNP OUTPUT WITH M12 CONNECTOR
952021690 S50-MA-5-D00-NN METAL FIXED FOCUS PROXIMITY, NO/NC, NPN OUTPUT WITH M12 CONNECTOR
952021230 S50-MA-5-D00-PP METAL FIXED FOCUS PROXIMITY, NO/NC PNP OUTPUT WITH M12 CONNECTOR
952021890 S50-MA-5-E01-NN METAL FIBRE OPTIC AMPLIFIER, NO/NC, NPN OUTPUT WITH M12 CONNECTOR
952021240 S50-MA-5-E01-PP METAL FIBRE OPTIC AMPLIFIER, NO/NC, PNP OUTPUT WITH M12 CONNECTOR
952021700 S50-MA-5-F01-NN METAL RECEIVER, NO/NC, NPN OUTPUT WITH M12 CONNECTOR
952021250 S50-MA-5-F01-PP METAL RECEIVER, NO/NC, PNP OUTPUT WITH M12 CONNECTOR
952021260 S50-MA-5-G00-XG METAL EMITTER WITH M12 CONNECTOR
952021270 S50-MA-5-M03-PP METAL BACKGROUND SUPPRESSION, NO/NC, PNP OUTPUT WITH M12 CONNECTOR
952021730 S50-MA-5-T01-NN METAL TRANSPARENT RETROREFLEX, NO/NC, NPN OUTPUT WITH M12 CONNECTOR
952021290 S50-MA-5-T01-PP METAL TRANSPARENT RETROREFLEX, NO/NC, PNP OUTPUT WITH M12 CONNECTOR
952021300 S50-MA-5-U03-PP METAL LUMINESCENCE, NO/NC, PNP OUTPUT WITH M12 CONNECTOR
952021750 S50-MA-5-W03-NN METAL CONTRAST, NO/NC, NPN OUTPUT WITH M12 CONNECTOR
952021310 S50-MA-5-W03-PP METAL CONTRAST, NO/NC, PNP OUTPUT WITH M12 CONNECTOR
952021820 S50-ML-2-B01-NN METAL LASER POLARISED RETROREFLEX, NO/NC, NPN OUTPUT WITH CABLE
952021400 S50-ML-2-B01-PP METAL LASER POLARISED RETROREFLEX, NO/NC, PNP OUTPUT WITH CABLE
952021830 S50-ML-2-C01-NN METAL LASER PROXIMITY, NO/NC, NPN OUTPUT WITH CABLE
952021410 S50-ML-2-C01-PP METAL LASER PROXIMITY, NO/NC, PNP OUTPUT WITH CABLE
952021840 S50-ML-2-F01-NN METAL LASER RECEIVER, NO/NC, NPN OUTPUT WITH CABLE

952021420	S50-ML-2-F01-PP METAL LASER RECEIVER, NO/NC, PNP OUTPUT WITH CABLE
952021430	S50-ML-2-G00-XG METAL LASER EMITTER WITH CABLE
952021850	S50-ML-5-B01-NN METAL LASER POLARISED RETROREFLEX, NO/NC, NPN OUTPUT WITH M12 CONNECTOR
952021440	S50-ML-5-B01-PP METAL LASER POLARISED RETROREFLEX, NO/NC, PNP OUTPUT WITH M12 CONNECTOR
952021860	S50-ML-5-C01-NN METAL LASER PROXIMITY, NO/NC, NPN OUTPUT WITH M12 CONNECTOR
952021450	S50-ML-5-C01-PP METAL LASER PROXIMITY, NO/NC, PNP OUTPUT WITH M12 CONNECTOR
952021870	S50-ML-5-F01-NN METAL LASER RECEIVER, NO/NC, NPN OUTPUT WITH M12 CONNECTOR
952021460	S50-ML-5-F01-PP METAL LASER RECEIVER, NO/NC, PNP OUTPUT WITH M12 CONNECTOR
952021470	S50-ML-5-G00-XG METAL LASER EMITTER WITH M12 CONNECTOR