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Compact Sensors - S62

l Na Est

The most complete universal sensor in a compact 50x50 mm housing

- Sensors with red, infrared LED or LASER emission
- Background suppression from 3 cm to 2 m
- Polarized retroreflective up to 20 m
- Multivoltage 24-240Vac/24-60Vdc with Relay output
- NPN/PNP output NO-NC configuration

APPLICATIONS

S62

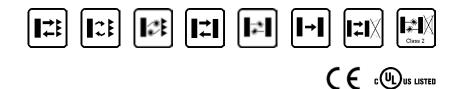
-Processing and Packaging machinery -Conveyor lines, material handling

| S62 | | | |
|-----------------------------------|------------------------|--|--|
| Through beam | 025 m | | |
| Retroreflective (on R2 reflector) | | 0,113 m | |
| Polarized retroreflective | | 0,18 m | |
| | | 0,320 m (class 2 LASER) | |
| Diffuse proximity | | short 0900 mm, long 02000 mm | |
| | | 0900 mm (class 2 LASER) | |
| | | short 30300 mm | |
| | | | |
| Background suppression | | long 601200 mm very long 2002000 mm | |
| Background Suppression | Background suppression | | |
| | | short LASER 30150 mm (class 2 LASER) | |
| | | long LASER 50350 mm (class 2 LASER) | |
| | Vdc | 1030 V | |
| Power supply | Vac | | |
| | Vac/dc | 24/240 Vac/2460 Vdc | |
| | PNP | • | |
| | NPN | • | |
| Output | NPN/PNP | • | |
| | relay | • | |
| | other | | |
| | cable | • | |
| Connection | connector | • | |
| | pig-tail | | |
| Approximate dimensions (mm) | | 18x50x50 | |
| Housing material | | ABS | |
| Mechanical protection | | IP67 | |





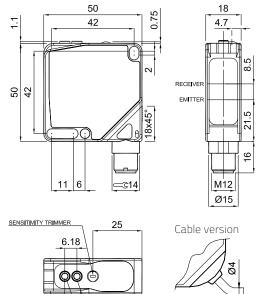




DATALOGIC

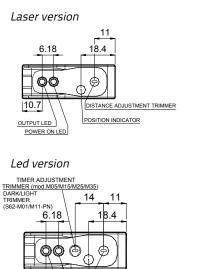
| TECHNICAL DATA | | | | |
|---------------------------------------|---|--|--|--|
| Power supply | 10 30 Vdc (mod. S622/5) | | | |
| Ripple | 24240 Vac/ 2460 Vdc (mod. S621) 2 Vpp max. (mod. S622/5), 10% max. (mod. S621) | | | |
| кірріе | 30 mA max. (mod. 5622/5) | | | |
| Consumption (output current excluded) | 3 VA max. (mod. 5621) | | | |
| | red LED 640 nm (mod. S62-PAA/B/C/G/M01/M05/M11/M15) | | | |
| Light emission | IR LED 880 nm (mod. S62-PAM21/M25/M31/M35) | | | |
| | red Laser 645665 nm (mod. S62-PL) | | | |
| Setting | sensititivity adjustment trimmer | | | |
| Operating mode | mono-turn LIGHT/DARK trimmer (mod. S62RX/PN) | | | |
| Indicators | yellow OUTPUT LED green STABILITY LED, POWER LED (S62G) | | | |
| Output | PNP or NPN N.O./N.C. (mod. S62PP/NN); NPN/PNP (mod. S62PN); | | | |
| output | electromechanical SPDT 250 Vac/30 Vdc (mod. S62RX) | | | |
| Output current | 100 mA max. (mod. S622/5), 2 A max. (mod. S621) | | | |
| Saturation voltage | 2 V max. (mod. S622/5) | | | |
| Response time | 25 ms (mod. S621) 1,5 ms (mod. S62M3x) 1 ms (mod. S622/5-F/G/M2x) 500 μs (mod. S62-PA2/5-A/B/C/M0x/M1x) 200 μs (mod. S62-PLB/C/M11) 140 μs (mod. S62-PLM01) | | | |
| Switching frequency | 20 Hz (mod. S621) 330 Hz (mod. S62M3x) 500 Hz (mod. S62Z/5-F/G/M2x) 1 kHz (mod. S62-PA2/5-A/B/C/M0x/M1x) 2,5 kHz (mod. S62-PLB/C/M11) 3,5 kHz (mod. S62-PLM01) | | | |
| Connection | M12 4-pole connector, 2 m Ø 4 mm cable vers., 2 m Ø 5 mm cable vers. | | | |
| Dielectric strength | 500 Vac 1 min., between electronics and housing | | | |
| Insulation resistence | >20 M Ω 500 Vdc, between electronics and housing | | | |
| Mechanical protection | IP67 | | | |
| Ambient light rejection | According to EN 60947-5-2 | | | |
| Vibrations | 0.5 mm amplitude, 10 55 Hz frequency, for each axis (EN60068-2-6) | | | |
| Shock resistence | 11ms (30G) 6 shock for every axis (EN60068-2-27) | | | |
| Housing material | ABS | | | |
| Lens material | PMMA window, policarbonate lens | | | |
| Operating temperature | -1055 °C | | | |
| Storage temperature | -20 70 °C | | | |
| Weight | 40 g max. conn. vers., 90 max. cable vers. | | | |

DIMENSIONS



10.7 POWER ON LED

Background suppression

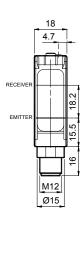


DISTANCE ADJUSTMENT TRIMMER

10.7

OUTPUT LED STABILITY LED (S62...M2/M3) / POWER ON LED (S62...M0/M1)

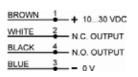
mm



\$DATALOGIC

CONNECTIONS

VDC MODELS

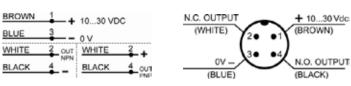


| Through | n be | am emitter |
|---------|------|-------------|
| BROWN | 1 | -+ 1030 VDC |
| WHITE | 2 | - TEST+ |
| BLACK | | - TEST- |
| BLUE | 3 | 0V |

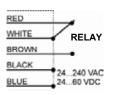
NPN/PNP version

BLUE

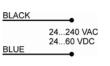
M12 CONNECTOR



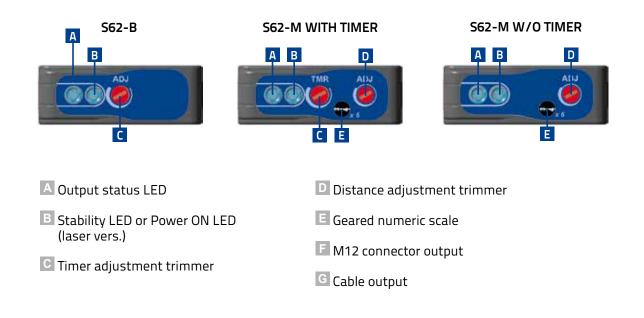
VAC MODELS



| Through | beam | emitter |
|---------|------|---------|
|---------|------|---------|

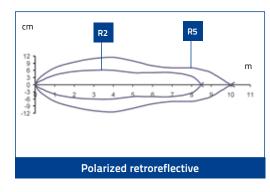


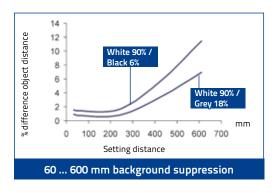
INDICATORS AND SETTINGS

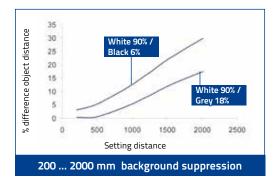


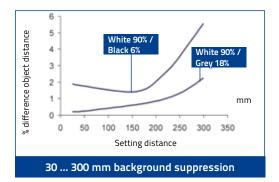
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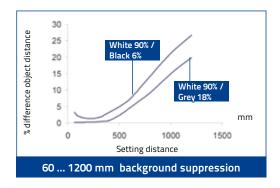
DETECTION DIAGRAMS OF MODELS WITH LED EMISSION

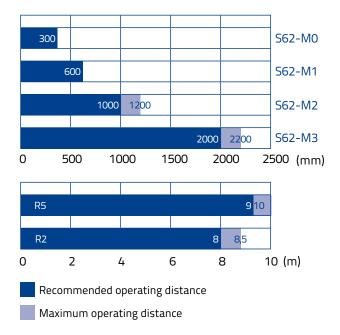






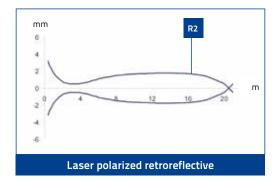


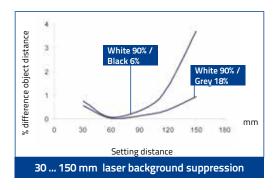




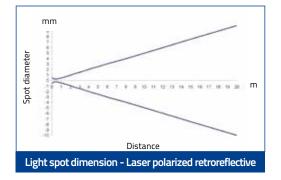
DATALOGIC

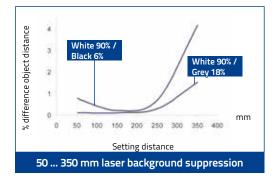
DETECTION DIAGRAMS OF MODELS WITH LASER EMISSION

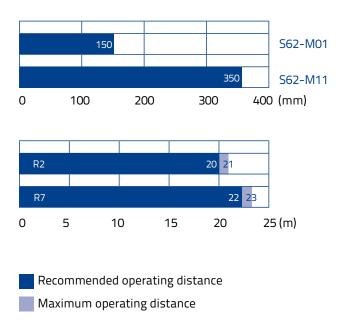




| Reflector operating distances (m) | | | | | |
|---|--------|--------|----------|-------|--|
| R1 | R2 | R6 | R7 / R20 | R8 | |
| 0.3 16 | 0.3 20 | 0.4 22 | 0.3 22 | 0.2 2 | |
| The use of the RT3970 reflecting tape is suggested. | | | | | |







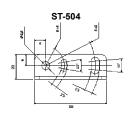
DATALOGIC

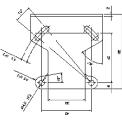
MODEL SELECTION AND ORDER INFORMATION

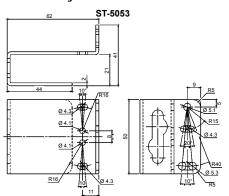
| OPTIC FUNCTION | EMISSION | CONNECTION | OUTPUT | MODEL | ORDER N |
|--|----------------------|----------------|------------------|------------------------------------|---------------------|
| | LED | 2m Cable | PNP/NPN | S62-PA-2-A01-PN | 95621124 |
| Retroreflective | (red 640nm) | M12 Connector | PNP/NPN | S62-PA-5-A01-PN | 95621131 |
| | | Vac relay | Relay | S62-PA-1-A01-RX | 95621118 |
| | | 2m Cable | PNP/NPN | S62-PA-2-B01-PN | 95621125 |
| | | | PNP | S62-PA-2-B01-PP | 95621101 |
| | LED (red 640nm) | | NPN PNP/NPN | S62-PA-5-B01-NN | 95621102 |
| Polarized retroreflective | (160.0401111) | M12 Connector | PNP/NPN | S62-PA-5-B01-PN | 95621132 |
| | | V/ac valar | | S62-PA-5-B01-PP | 95621100 |
| | | Vac relay | Relay NPN | S62-PA-1-B01-RX | 95621119 |
| | LASER | M12 Connector | PNP | S62-PL-5-B01-NN S62-PL-5-B01-PP | 9562111 |
| | | | NPN | | |
| | | 2m Cable | PNP/NPN | S62-PA-2-C01-NN S62-PA-2-C01-PN | 9562114 95621126 |
| | | ZITI Cable | PNP | S62-PA-2-C01-PR | 95621138 |
| | LED | | NPN | S62-PA-2-C01-PP | 95621150 |
| | (red 640nm) | M12 Connector | PNP/NPN | S62-PA-5-C01-NN | 9562113 |
| Short diffused proximity | | WIZ CONNECTOR | PNP | S62-PA-5-C01-PP | 9562113 |
| Short unfused proximity | | Vac relay | Relay | S62-PA-5-C01-PP | 9562114 |
| - | | vacielay | NPN | | |
| | | 2m Cable | PNP | S62-PL-2-C01-NN S62-PL-2-C01-PP | 9562114 9562114 |
| | LASER | | NPN | S62-PL-2-C01-PP | 9562114 |
| | | M12 Connector | PNP | S62-PL-5-C01-NN | 9562115 |
| | | | NPN | | |
| | | Der Cabla | PNP/NPN | S62-PA-2-C11-NN | 9562114 |
| | | 2m Cable | PNP/NPN | S62-PA-2-C11-PN | 9562112 |
| Long diffused eveningity | LED | | | S62-PA-2-C11-PP | 9562113 |
| Long diffused proximity | (red 640nm) | M12 Coppositor | NPN PNP/NPN | S62-PA-5-C11-NN | 9562115 |
| | | M12 Connector | | S62-PA-5-C11-PN | 9562113 |
| | | | PNP | S62-PA-5-C11-PP | 9562114 |
| | | Vac relay | Relay | S62-PA-1-C11-RX | 9562112 |
| | | Der Cabla | NPN DND (NDN | S62-PA-2-F01-NN | 9562114 |
| | | 2m Cable | PNP/NPN | S62-PA-2-F01-PN | 9562112 |
| Through hoom receiver | | | PNP | S62-PA-2-F01-PP | 9562114 |
| Through beam receiver | - | M12 Coppositor | NPN DND (NDN) | S62-PA-5-F01-NN | 9562115 |
| | | M12 Connector | PNP/NPN | S62-PA-5-F01-PN | 9562113 |
| | | Ma a vala v | PNP | S62-PA-5-F01-PP | 9562114 |
| | | Vac relay | Relay | S62-PA-1-F01-RX | 9562112 |
| Thursdall has a south to a | LED | 2m Cable | | S62-PA-2-G00-XG | 9562113 |
| Through beam emitter | (red 640nm) | M12 Connector | - | S62-PA-5-G00-XG | 9562113 |
| | | Vac relay | DND (NDN) | S62-PA-1-G00-XX | 9562112 |
| | | 2m Cable | PNP/NPN | 562-PA-2-M01-PN | 9562112 |
| | | | PNP | S62-PA-2-M01-PP | 9562018 |
| | LED | | NPN DND (NDN) | S62-PA-5-M01-NN | 9562018 |
| Background suppression | (red 640nm) | | PNP/NPN | S62-PA-5-M01-PN | 9562113 |
| Background suppression (short distance) | | M12 Connector | PNP | S62-PA-5-M01-PP | 9562018 |
| | | | NPN | 562-PA-5-M05-NN | 95620180 |
| | | | PNP | S62-PA-5-M05-PP | 9562018 |
| | LASER | M12 Connector | NPN | S62-PL-5-M01-NN | 95621112 |
| | | | PNP | S62-PL-5-M01-PP | 9562111 |
| | | 2m Cable | PNP | S62-PA-2-M11-PP | 9562018 |
| | LED | | NPN | S62-PA-5-M11-NN | 9562018 |
| Background suppression | (red 640nm) | M12 Connector | PNP | 562-PA-5-M11-PP | 95620188 |
| (medium distance) | | | NPN | S62-PA-5-M15-NN | 9562018 |
| | | | PNP | S62-PA-5-M15-PP | 9562018 |
| | LASER | M12 Connector | NPN | S62-PL-5-M11-NN | 9562111 |
| | | | PNP | S62-PL-5-M11-PP | 9562111 |
| | | 2m Cable | PNP | S62-PA-2-M21-PP | 9562019 |
| Background suppression | | | NPN | 562-PA-5-M21-NN | 9562019 |
| (long distance) | (infrared oppose) | M12 Connector | PNP | S62-PA-5-M21-PP | 9562019 |
| | | | NPN | 562-PA-5-M25-NN | 9562019 |
| | | | PNP | S62-PA-5-M25-PP | 9562019 |
| | (infrared 880nm) | 2m Cable | PNP | 562-PA-2-M31-PP | 9562110 |
| Background suppression | ppression stance) | | NPN | S62-PA-5-M31-NN | 9562110 |
| (very long distance) | | M12 Connector | PNP | S62-PA-5-M31-PP | 9562110 |
| | | | NPN | S62-PA-5-M35-NN | 95621108 |
| | | | PNP | S62-PA-5-M35-PP | 9562110 |

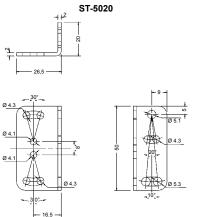
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ACCESSORIES



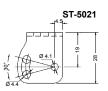


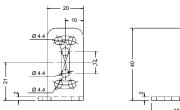


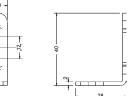


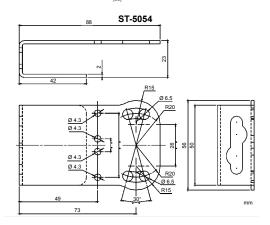
R15

R40

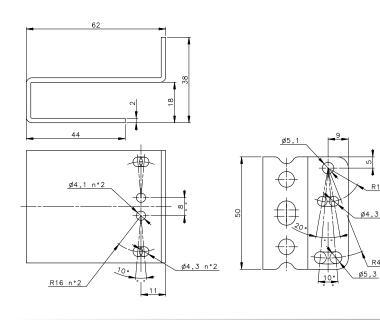




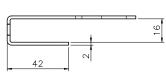


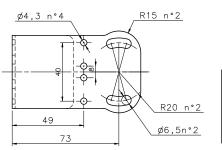


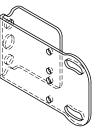
ST-5018



ST-5019









DATALOGIC

| MODEL | DESCRIPTION | ORDER No. |
|-----------|---|-----------|
| ST-5018 | protective bracket | 95ACC5310 |
| ST-5019 | protective bracket | 95ACC5320 |
| ST-5020 | mounting bracket | 95ACC5330 |
| ST-5021 | mounting bracket | 95ACC5340 |
| ST-504 | mounting bracket | 95ACC2820 |
| ST-5053 | protective bracket | 95ACC2410 |
| ST-5054 | protective bracket | 95ACC2420 |
| JOINT-S62 | protective bracket with jointed support | 95ACC2430 |

CABLES

| ТҮРЕ | DESCRIPTION | LENGTH | MODEL | ORDER No. |
|------------------------|------------------------------------|-----------------------|---------------|-----------|
| Axial M12 Connector | | 3 m | CS-A1-02-G-03 | 95A251380 |
| | | 5 m | CS-A1-02-G-05 | 95A251270 |
| | 4-pole, grey, P.V.C. | 7 m | CS-A1-02-G-07 | 95A251280 |
| | | 10 m | CS-A1-02-G-10 | 95A251390 |
| | | 2 m | CS-A1-02-R-02 | 95A251540 |
| | 4-pole, P.U.R. | 5 m | CS-A1-02-R-05 | 95A251560 |
| | | 3 m | CS-A2-02-G-03 | 95A251360 |
| | | 5 m | CS-A2-02-G-05 | 95A251240 |
| | 4-pole, grey, P.V.C. | 7 m | CS-A2-02-G-07 | 95A251245 |
| Radial M12 Connector | | 10 m | CS-A2-02-G-10 | 95A251260 |
| | (| 2 m | CS-A2-02-R-02 | 95A251550 |
| | 4-pole, P.U.R. | 5 m | CS-A2-02-R-05 | 95A251570 |
| Radial M12 Connector | | 3 m | CS-A2-12-G-03 | 95A251400 |
| with LED | 4-pole, grey, P.V.C. | 5 m | CS-A2-12-G-05 | 95A251350 |
| (for PNP N.O. sensors) | | 10 m | CS-A2-12-G-10 | 95A251370 |
| | | 3 m | CV-A1-22-B-03 | 95ACC1480 |
| | | 5 m | CV-A1-22-B-05 | 95ACC1490 |
| Axial M12 Connector | | 10 m | CV-A1-22-B-10 | 95ACC1500 |
| | 4-pole, shielded, black, P.V.C. | 15 m | CV-A1-22-B-15 | 95ACC2070 |
| | | 25 m | CV-A1-22-B-25 | 95ACC2090 |
| | - | 3 m | CV-A2-22-B-03 | 95ACC1540 |
| Radial M12 Connector | | 5 m | CV-A2-22-B-05 | 95ACC1550 |
| | | 10 m | CV-A2-22-B-10 | 95ACC1560 |
| | | 3 m | CS-A1-02-U-03 | 95ASE1120 |
| | | 5 m | CS-A1-02-U-05 | 95ASE1130 |
| Avial MAD Casarat | 4-pole, U.L., black, P.V.C. | 10 m | CS-A1-02-U-10 | 95ASE1140 |
| Axial M12 Connector | | 15 m | CS-A1-02-U-15 | 95ASE1150 |
| | | 25 m | CS-A1-02-U-25 | 95ASE1160 |
| | | Connector- not cabled | CS-A1-02-B-NC | G5085002 |
| Radial M12 Connector | 4-pole, black | Connector- not cabled | CS-A2-02-B-NC | G5085003 |

Rev. 01, 07/2016