1-800-633-0405 Datalogic Safety Light Curtains SDATALOGIC

| Specification | SG4-14 Base Series | SG4-30 Base Series | SG4-14 Advanced Series | SG4-30 Advanced Series | |
|------------------|--|--|---|---|--|
| Description | Finger Protection, 14mm resolution | Hand Protection, 30mm resolution | Finger Protection, 14mm resolution | Hand Protection, 30mm resolution | |
| Protected Height | 150 to 900mm (5.91 to 35.43 in) | 300 to 1800mm (11.81 to 70.81 in) | 300 to 750mm (11.81 to 29.52 in) (No Dead Zone) | 300 to 1800mm (11.81 to 70.87 in) (No Dead Zone) | |
| Safety Level | Cat.4, PLe (EN/ISO 13849-1) Type 4 (IEC 61496-1/2) | Cat.4, PLe (EN/ISO 13849-1) Type 4 (IEC 61496-1/2) | Cat.4, PLe (EN/ISO 13849-1) Type 4 (IEC 61496-1/2) | Cat.4, PLe (EN/ISO 13849-1) Type 4 (IEC 61496-1/2) | |
| Operating Range | 0.2 to 6m (0.66 to 19.68 ft) | 0.2 to 19m (0.66 to 63.34 ft) | 0.2 to 4m (0.66 to 13.12 ft) 0.2 to 7m (0.66 to 22.97 ft) (Selectable) | 0.2 to 12m (0.66 to 39.32 ft) 0.2 to 20m (0.66 to 65.62 ft) (Selectable) | |
| Output State | N.C. | N.C. | N.C. | N.C. | |
| Logic Output | Dual PNP outputs, short-circuit protected | Dual PNP outputs, short-circuit protected | Dual PNP / NPN configurable outputs short-circuit protected | Dual PNP / NPN configurable outputs short-circuit protected | |
| Connection Type | Sender: 4-pole, M12 connector Receiver: 8-pole, M12 connector | Sender: 4-pole, M12 connector Receiver: 8-pole, M12 connector | Sender: M12 5-pole connector Receiver: M12 12 poles + M12 5 poles for muting applications M12 12 poles for blanking applications | Sender: M12 5-pole connector Receiver: M12 12 poles + M12 5 poles for muting applications M12 12 poles for blanking applications | |
| Supply Voltage | 24VDC ± 20% | 24VDC ± 20% | 24VDC ± 20% 24VDC ± 20% | | |
| Rating | IEC IP65 | IEC IP65 | IEC IP65 IEC IP65 | | |



1-800-633-0405 Datalogic Safety Light Curtains COATALOGIC **Base Series, Finger-safe**



Safety light curtain with 14mm resolution



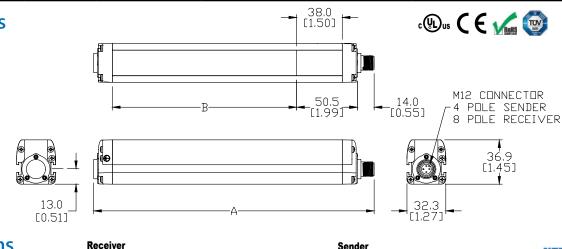
· Includes both sender and receiver

- Integrated light curtain for finger protection
- Operating distance up to 6m
- Protected heights ranging from 150 to 900 mm (5.91 to 35.43 in)
- Compact 32 x 37 mm (1.25 x 1.46 in) profile
- Selectable EDM (external device monitoring)
- · Selectable manual / automatic restart
- IP65 rated
- Type 4, PLe, SIL3
- UL, CE, TUV and RoHS compliant

| SG4-14 Base Series with EDM Selection Table | | | | | | |
|---|------------|---------------------------------|-----------------------------|--------------------|-----------------------|---|
| Part Number | Price | Protected Height B mm[in] | Total Height A mm[in] | Number of Beams | Response Time [ms] | Approximate Product Weight per Unit - kg [lb] |
| <u>SG4-14-015-00-E</u> | \$551.00 | 150 [5.91] | 233.3 [9.81] | 16 | 11 | 1.40 [3.09] |
| SG4-14-030-00-E | \$730.00 | 300 [11.81] | 383.2 [15.09] | 32 | 15 | 2.10 [4.63] |
| <u>SG4-14-045-00-E</u> | \$947.00 | 450 [17.72] | 533.2 [20.99] | 48 | 18 | 2.60 [5.73] |
| <u>SG4-14-060-00-E</u> | \$1,162.00 | 600 [23.62] | 683.2 [26.90] | 64 | 22 | 3.00 [6.61] |
| <u>SG4-14-075-00-E</u> | \$1,354.00 | 750 [29.53] | 833.2 [32.80] | 80 | 25 | 4.00 [8.82] |
| <u>SG4-14-090-00-E</u> | \$1,579.00 | 900 [35.43] | 983.2 [38.71] | 96 | 29 | 4.30 [9.48] |

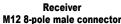
Dimensions

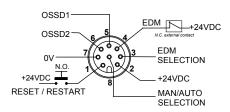
mm [in]



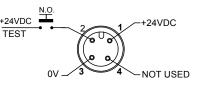
TEST

Connections





Sender M12 4-pole male connector





| Assignment | Function | Pins on Sender |
|-----------------|--|----------------|
| | | M12 |
| Reset / Restart | Automatic / Manual reset / Restart | 1 |
| Supply Voltage | +24VDC | 2 |
| EDM | EDM Activation | 3 |
| EDM | EDM | 4 |
| Output | OSSD1 (Output Single Switching Device) | 5 |
| Output | OSSD2 (Output Single Switching Device) | 6 |
| 0V | 0V | 7 |
| Reset Selection | Select Automatic / Manual reset | 8 |

| Assignment | Function | Pins on Sender |
|----------------|----------|----------------|
| | | M12 |
| Supply Voltage | +24VDC | 1 |
| Test | Test | 2 |
| 0V | 0V | 3 |
| N/A | Not Used | 4 |

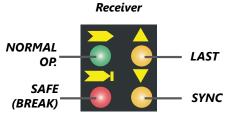
Note: Confirm the specific color to each pinout based on the cable used during installation.

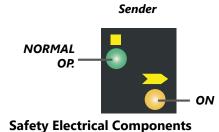
1-800-633-0405 For the latest prices, please check AutomationDirect.com. **Datalogic Safety Light Curtains & DATALOGIC Base Series**

| Inded 864-14 Base Series (linger protection) SG4-30 Base Series (hand protection) Electrical Data 24/DC ± 20% Current Consumption (Sender) 2.5 W maximum Current Consumption (Receiver) 3.5 W maximum (without load) OSSD Outputs 2 PNP Short Circuit Protection 1.4.4 maximum Output Voltage - ON status: 0.2 V maximum on each output Output Voltage - OFF status: 0.2 V maximum Output Voltage - OFF status: 0.2 V maximum Campacitive Load (if a longer cable must bu used, with y that capacitive load specifications are respected) Protected Height 150 - 900 mm (511 - 35.43) m 300 - 1000 mm (11.81 - 70.87 m) Safety Category Type 4.1EC 6 1486-1 4.1 | SG4-14 and SG4-30 Base Series with EDM Specifications | | | | |
|---|---|---|--------------------------------------|--|--|
| Supply Voltage 24/VDC ± 20% Current Consumption (Sender) 2.5 W maximum Current Consumption (Receiver) 3.5 W maximum (without load) OSSD Outputs 2 PNP Short Circuit Protection 1.4 A maximum Output Voltage – ON status: 0.5 args maximum on each output Output Voltage – OF status: 0.2 V maximum Leakage Current < 1.4 A maximum Compacitive Load (ff a longer cable must be used, verift what the capacitive load specifications are respected) Protected Height 150 - 900 mm (511 - 35.43 m) 300 - 1800 mm (11.81 - 70.87 m) Safety Category Type 4, EC 61486-1 4.4 C 61486-1 Auxiliary Functions Selectable Manual / Automatic Reset Selectable EMM Category Type 4, EC 61486-1 Electrical Protection Class I Class III Electrical Connections M12 4 pole for sender M12 4 pole for sender (ff a longer cable must weal, weith print the capacitive load specifications are respected) Optical Data UP + Maximum (ff a longer cable must weal, weith print the capacitive load specifications are respected) Operating Distance 0.2 - 6 m 0.2 - 19 m </th <th>Model</th> <th>SG4-14 Base Series (finger protection)</th> <th>SG4-30 Base Series (hand protection)</th> | Model | SG4-14 Base Series (finger protection) | SG4-30 Base Series (hand protection) | | |
| Current Consumption (Receiver) 2.5 W maximum (Winch Ideal) Current Consumption (Receiver) 3.5 W maximum (Winch Ideal) Short Circuit Protection 1.4 A maximum Output Voltage - ON status: 0.5 anps maximum on eah output Output Voltage - ON status: 0.2 V maximum Output Voltage - ON status: 0.2 V maximum Compacitive Load 0.2 V maximum Leakage Current < 1mA Compacitive Load (if a longer cable must be used, verify that the capacitive load specifications are respected) Protected Height 150 - 900 mm (5.9 - 35.4 3 in) 300 - 1800 mm (18.1 - 70.87 in) Safety Category Type 4. (EC 61496-1 Safety Category Auxiliary Functions Selectable Manual / Automatic Reset Electrical Protection Class II Electrical Connections M12 4-pole for sender Cable Length (for supply power) (if a longer cable must be used, wrify that the capacitive load specifications are respected) Optical Data | Electrical Data | · · · · · · · | | | |
| Current Consumption (Receiver) 3.5 W maximum (without load) OSSD Outputs 2 PMP Sohot Circuit Protection 1.4 A maximum Output Voltage - ON status: | Supply Voltage | | 24VDC ± 20% | | |
| OSSD Outputs 2 PNP Short Oicruit Protection 14 A maximum Output Voltage - OF status: 0 2 V maximum Output Voltage - OFF status: 0 2 V maximum Compactive Load 2 J ur @ 2 V VDC Compactive Load (if a longer cable must be used, verify that he capacible load specifications are respected) Protected Height 150 - 900 mm (5.91 - 35.43 in) 300 - 1800 mm (11.81 - 70.87 in) Safety Category Type 4, IEC 61486-1 Selectable Manual / Automatic Reset Reset/Test Selectable Manual / Automatic Reset Selectable Manual / Automatic Reset Electrical Protection Class III Class II Electrical Connections M12 - 8pole for resolve or Reset / Test Cable Longth (for supply power) (if a longer cable must be used, verify that the capacitive load specifications are respected) Optical Data Infared LED (950nm) Reschuiton 14.nm 30mm Operating Distance 0.2 - 6m 0.2 - 19m Operating Distance 0.2 - 6m 0.2 - 19m Arbertanical Protection IEC 61486 2 Mechanical and Environmental Data Operating Temperature | Current Consumption (Sender) | | | | |
| Short Circuit Protection 14.4 maximum Output Current 0.5 amps maximum on each output Output Voltage – ON status: 0.2 V maximum Compacitive Load 2 Ure @ 24VDC Compacitive Load (if a longer cable must be used, verify that the capacitive load specifications are respected) Protected Height 300 - 1800 mm (5.91 - 35.43 in) Safety Category 150 - 900 mm (5.91 - 35.43 in) 300 - 1800 mm (1.81 - 70.87 in) Safety Category Type 4. IEC 6 (148-1 East Auxiliary Functions Selectable Manual / Automatic Reset Selectable Manual / Automatic Reset Electrical Protection Class III IIII Electrical Connections Iff a longer cable must be used, verify that the capacitive load specifications are respected) Optical Data Iff and Iff maximum Iff and Iff maximum Resolution Iff and Iff maximum 0.2 - 19 m Aperature Angle (EAA) ±2.5° maximum | Current Consumption (Receiver) | 3 | 3.5 W maximum (without load) | | |
| Output Current 0.5 anps maximum on each output Output Voltage - ON status: Vd-1V minimum Output Voltage - OFF status: 0.2 V maximum Leakage Current < 1 mA Compacitive Load (if a longer cable must be used, verify that the capacitive load specifications are respected) Protected Height 150 - 900 mm (5.91 - 35.43 in) 300 - 1800 mm (11.81 - 70.87 in) Safety Category Type 4. (EC 61496-1 Selectable Manual / Automatic Reset Auxiliary Functions Selectable Manual / Automatic Reset Selectable EDM Electrical Protection Class II / Class III Selectable EDM Electrical Connections Mit2 8-pole for reader Selectable Manual / Automatic Reset Light Emission (if a longer cable must be used, verify that the capacitive load specifications are respected) Optical Data Light Emission Infared LED (950nn) Resolution Aperature Angle (EAA) ±2.5° maximum Aperature Angle (EAA) Aperature Angle (EAA) ±2.5° maximum Softwarm Amisent Light Rejection Ele Chi496-2 Softwarm Operating Distance 0 to 55°C (32 to 131°F) Storage Temperature <th>OSSD Outputs</th> <th></th> <th>2 PNP</th> | OSSD Outputs | | 2 PNP | | |
| Output Voltage – ON status: Vdd-1V minimum Output Voltage – OF status: 0.2 V maximum Leakage Current Compactitive Load 2 U @ @ 24VDC (if a longer cable must be used, verify that the capacitive load specifications are respected) Protected Height 150 - 900 mm (5.91 - 35.43 in) 0.900 mm (1.81 - 70.87 in) Safety Category Type 4, IEC 61496-1 Auxiliary Functions Selectable Manual / Automatic Reset Electrical Protection Class II Electrical Protection Class II Electrical Connections M12 4-pole for sender Cable Length (for supply power) (if a longer cable must be used, verify that the capacitive load specifications are respected) Optical Data M12 8-pole for receiver Light Emission Infared LED (950nm) Resolution 14mm 30mm Operating Distance 0.2 - 6 m 0.2 - 19 m Aperature Angle (EAA) ±2.5* maximum 42.5* maximum Molechanical and Environmental Data 0 1EC 61496-2 Operating Temperature -25 to 70°C (-13 to 13*F) Storeget Temperature <td< th=""><th>Short Circuit Protection</th><th colspan="3">1.4 A maximum</th></td<> | Short Circuit Protection | 1.4 A maximum | | | |
| Output Voltage - OFF status: 0.2 V maximum Leakage Current · · · · · · · · · · · · · · · · · · · | Output Current | 0.5 | amps maximum on each output | | |
| Leakage Current < 1mA Compacitive Load 2 u @ 2 4VDC (if a longer cable must be used, verify that the capacitive load specifications are respected) Protected Height 150 - 900 mm (5.91 - 35.43 in) 300 - 1800 mm (11.81 - 70.87 in) Safety Category Reset/Test Auxiliary Functions Reset/Test Reset/Test Electrical Protection Selectable Manual Automatic Reset Electrical Connections M12 4-pole for sender M12 4-pole for sender Cable Length (for supply power) (if a longer cable must be used, verify that the capacitive load specifications are respected) Optical Data Sint Sint Sint Sint Sint Sint Sint Sint | Output Voltage – ON status: | | Vdd-1V minimum | | |
| Compacitive Load 22 uF @ 24VDC (if a longer cable must be used, verify that the capacitive load specifications are respected) Protected Height 150 - 900 mm (5.91 - 35.43 in) 300 - 1800 nm (11.81 - 70.87 in) Safety Category Type 4, IEC 61496-1 Auxiliary Functions Selectable Manual / Automatic Reset Electrical Protection Selectable Manual / Automatic Reset Electrical Connections M12 4 pole for receiver Cable Length (for supply power) (if a longer cable must be used, verify that the capacitive load specifications are respected) Optical Data Unifared LED (950nm) Resolution 14mm 30mm Operating Distance 0.2 - 6 m 0.2 - 19 m Aperature Angle (EAA) ±2.5° maximum Ambient Light Rejection Mechanical and Environmental Data 0 to 55°C (32 to 131°F) 50 (32 to 131°F) Storage Temperature 0 to 55°C (32 to 131°F) 16 Mechanical And Environmental Data 1965 (EN 60529) 16 Mitrations 16 165°C (32 to 131°F) Storage Temperature 25 to 70°C (-13 to 158°F) 16 Humidity 15 - 95% (non-condensing) 16 | Output Voltage – OFF status: | | 0.2 V maximum | | |
| Comparison (if a longer cable must be used, verify that the capacitive load specifications are respected) Protected Height 150 - 900 nm (5.91 - 35.43 in) 300 - 1800 nm (11.81 - 70.87 in) Safety Category Type 4. IEC 61496-1 Auxiliary Functions Reset/ Test Electrical Protection Class III Electrical Connections M12 4-pole for sender Cable Length (for supply power) Selectable for receiver Cable Length (for supply power) (if a longer cable must be used, verify that the capacitive load specifications are respected) Optical Data M12 4-pole for sender Light Emission Imfared LED (950nm) Resolution 14mm 30mm Operating Distance 0.2 - 6 m 0.2 - 19 m Apparture Angle (EAA) ±2.5° maximum Ambient Light Rejection EC 61496-2 Mechanical and Environmental Data Us 55°C (32 to 131°F) Storage Temperature T6 Humidity 15 - 95% (non-condensing) Mechanical Protection IP65 (EN 60529) Vibrations Frequency 10 - 55 Hz 20 sweep per axis Operating Material Operating Vibro Stam Cable Cable Amistical and Envi | Leakage Current | | < 1mA | | |
| Safety Category Type 4, IEC 61496-1 Reset / Test Auxiliary Functions Selectable Idanual / Automatic Reset Selectable Idanual / Automatic Reset Selectable Idanual / Automatic Reset Electrical Protection Class I / Class III Electrical Connections M12 4-pole for sender Cable Length (for supply power) Storm (fd4ft) maximum (if a longer cable must be used, verify that the capacitive load specifications are respected) Optical Data Unified ILED (950nm) Light Emission Infared LED (950nm) Resolution 14mm 30mm Operating Distance 0.2 - 6 m 0.2 - 19 m Apperature Angle (EAA) ±2.5° maximum Ambient Light Rejection IEC 61496-2 Mechanical and Environmental Data 0 to 55°C (32 to 131°F) Storage Temperature 0 to 55°C (32 to 131°F) Storage Temperature 10 to 55°C (32 to 131°F) Storage Temperature Class Temperature Class Humidity 15 - 55% (non-condensing) Mechanical Protection P65 (EN 80529) Vibrations Frequency 10 - 55 Hz 20 sweep per axis 1 octave / min (EN 60068-2-6) < | Compacitive Load | (if a longer cable must be used | | | |
| Auxillary Functions Reset / Test Auxillary Functions Selectable Manual / Automatic Reset Selectable EDM Selectable EDM Electrical Protection Class I/ Class III Electrical Connections M12 4-pole for receiver Cable Length (for supply power) Selectable EDM Optical Data Selectable EDM (if a longer cable must be used, verify that the capacitive load specifications are respected) Optical Data Infared LED (950nm) Resolution 14mm 30mm Operating Distance 0.2 - 6 m 0.2 - 19 m Aperature Angle (EAA) ±2.5° maximum 40 to 55°C (32 to 131°F) Storage Temperature -25 to 70°C (-13 to 158°F) 50°C (32 to 131°F) Storage Temperature -25 to 70°C (-13 to 158°F) 76 Humidity 115 - 95% (non-condensing) Mechanical Protection Vibrations Frequency 10 - 55 Hz 20 sweep per axis 1 octave / min (EN 60068-2-6) Humidity 1-25 to 70°C (-13 to 158°F) 76 Humidity 1 octave / min (EN 60068-2-6) 1 octave / min (EN 60068-2-6) Frequency 10 - 55 Hz 20 sweep per axis 1 octave / min (EN | Protected Height | 150 - 900 mm (5.91 - 35.43 in) | 300 - 1800 mm (11.81 - 70.87 in) | | |
| Auxiliary Functions Selectable Manual / Automatic Reset Electrical Protection Class I/ Class II Electrical Connections M12 4-pole for sender Cable Length (for supply power) M12 4-pole for receiver Cable Length (for supply power) (if a longer cable must be used, verify that the capacityle load specifications are respected) Optical Data Unitary Functions Light Emission Infared LED (950nm) Resolution 14mm 30mm Operating Distance 0.2 - 6 m 0.2 - 19 m Apperture Angle (EAA) ±2.5° maximum Ambient Light Rejection IEC 61496-2 Mechanical and Environmental Data Uo to 55°C (32 to 131°F) Operating Temperature -25 to 70°C (-13 to 158°F) Temperature Class T6 Humidity 15 - 95% (non-condensing) Mechanical Protection IP65 (EN 60529) With 0.33 mm 1 octaw / mic (EN 6008-2-6) Housing Material Painted aluminum (yellow RAL 1003) front screen Protective Shield Material PMMA (Polymethacyling) Caperating Material PMMA (Polymethacyling) | Safety Category | | Type 4, IEC 61496-1 | | |
| Electrical Protection Class II Electrical Connections Class II Electrical Connections M12 4-pole for reaciver Cable Length (for supply power) Class II Optical Data Sum (IG4R) maximum Cable Length (for supply power) Infared LED (950nm) Cable Length (for supply power) Infared LED (950nm) Optical Data Optical Data Operating Distance 0.2-6 m 0.2-19 m Aperature Angle (EAA) ±2.5° maximum Ambient Light Rejection IEC 61496-2 Mechanical and Environmental Data Operating Temperature Operating Temperature Ob 55°C (32 to 131°F) Storage Temperature Class Humidit | | | Reset / Test | | |
| Electrical Protection Class I/ Class II Electrical Connections M12 4-pole for sender Cable Length (for supply power) S0m (164t) maximum (if a longer cable must be used, verify that the capacitive load specifications are respected) Optical Data Infared LED (950nm) Resolution 14mm Operating Distance 0.2 - 6 m Apperature Angle (EAA) ±2.5° maximum Ambient Light Rejection IEC 61496-2 Mechanical and Environmental Data 0 to 55°C (32 to 131°F) Operating Temperature 0 to 55°C (32 to 131°F) Storage Temperature Class T6 Humidity 15 - 95% (non-condensing) Mechanical Protection Frequency 10 - 55 Hz 20 sweep per axis Vibrations Frequency 10 - 55 Hz 20 sweep per axis 1 octave / min (EN 60062-26) PMA(Polymethymethacrylate [acrylic]) Cap Material PMMA(Polymethacrylate [acrylic]) Cap Material PMMA(Polymethacrylate [acrylic]) Cap Material PMMA(Polymethymethacrylate [acrylic]) | Auxiliary Functions | Selectable Manual / Automatic Reset | | | |
| Electrical Connections M12 4-pole for sender Cable Length (for supply power) S0m (164ft) maximum (if a longer cable must be used, verify that the capacitive load specifications are respected) Optical Data Infared LED (950nm) Resolution 14mm Operating Distance 0.2 - 6 m Apperature Angle (EAA) ±2.5° maximum Ambient Light Rejection IEC 61496-2 Mechanical and Environmental Data 0 to 55°C (32 to 131°F) Operating Temperature 0 to 55°C (32 to 131°F) Storage Temperature -25 to 70°C (-13 to 158°F) Temperature Class T6 Humidity 15 - 95% (non-condensing) Mechanical Protection IP65 (EN 60529) Vibrations Frequency 10 - 55 Hz 20 sweep per axis 1 octave / min (EN 600682-6) 1 octave / min (EN 600682-6) Housing Material Painted aluminum (yellow RAL 1003) front screen Protective Shield Material PMMA (Polymethyringthacrylate [acrylic]) Cap Material PC MAKROLON | | | Selectable EDM | | |
| Electrical Connections M12 8-pole for receiver Cable Length (for supply power) 50m (164ft) maximum (if a longer cable must be used, verify that the capacitive load specifications are respected) Optical Data Infared LED (950nm) Resolution 14mm Operating Distance 0.2 - 6 m Operating Distance 0.2 - 19 m Aperature Angle (EAA) ±2.5° maximum Ambient Light Rejection IEC 61496-2 Mechanical and Environmental Data 0 to 55°C (32 to 131°F) Storage Temperature 0 to 55°C (32 to 131°F) Storage Temperature Class T6 Humidity 15 - 95% (non-condensing) Mechanical Protection IP65 (EN 60529) Vibrations Frequency 10 - 55 Hz 20 sweep per axis To cave / min (LN 600682-6) 1 octave / min (LN 600682-6) Housing Material Painted aluminum (yellow RAL 1003) front screen Protective Shield Material PMMA (Polymethymethacrylate [arrylic]) Cap Material PC MAKROLON | Electrical Protection | | Class I / Class III | | |
| Cable Length (for supply power) S0m (164tt) maximum (if a longer cable must be used, verify that the capacitive load specifications are respected) Optical Data Infared LED (950nm) Resolution 14mm 30mm Operating Distance 0.2 - 6 m 0.2 - 19 m Aperature Angle (EAA) ±2.5° maximum Ambient Light Rejection IEC 61496-2 Mechanical and Environmental Data 0 to 55°C (32 to 131°F) Storage Temperature 0 to 55°C (32 to 131°F) Storage Temperature 0 to 55°C (32 to 131°F) Storage Temperature T6 Humidity 15 - 95% (non-condensing) Mechanical Protection IP65 (EN 60529) Vibrations Yidth 0.35 mm Vibrations Frequency 10 - 55 Hz 20 sweep per axis Tenquency In CIN 60682-6.0 1 otave / min (EN 600682-6.0) Housing Material Painted aluminum (yellow RAL 1003) font screen Protective Shield Material PMMA (Polymethymethacrylate [acrylic]) Cap Material PC MAKROLON Weight 1.3 Kg / m | Electrical Connections | M12 4-pole for sender | | | |
| Cable Length (for Supply power) (if a longer cable must be used, verify that the capacitive load specifications are respected) Optical Data Light Emission Light Emission 14mm Resolution 30mm Operating Distance 0.2 - 6 m Aperature Angle (EAA) ±2.5° maximum Ambient Light Rejection IEC 61496-2 Mechanical and Environmental Data 0 to 55°C (32 to 131°F) Operating Temperature 0 to 55°C (32 to 131°F) Storage Temperature T6 Humidity 15 - 95% (non-condensing) Mechanical Protection Width 0.35 mm Vibrations Frequency 10 - 55 Hz 20 sweep per axis 1 cotave / min (EN 60068-2-6) 1 cotave / min (EN 60068-2-6) Housing Material Painted aluminum (yellow RAL 1003) front screen Protective Shield Material PMMA (Polymethylmethacrylate [acrylic]) Cap Material PC MAKROLON Weight 1.3 Kg / m | | | M12 8-pole for receiver | | |
| Light Emission Infared LED (950nm) Resolution 14mm 30mm Operating Distance 0.2 - 6 m 0.2 - 19 m Aperature Angle (EAA) ±2.5° maximum Ambient Light Rejection IEC 61496-2 Mechanical and Environmental Data 0 to 55°C (32 to 131°F) Operating Temperature 0 to 55°C (32 to 131°F) Storage Temperature -25 to 70°C (-13 to 158°F) Temperature Class T6 Humidity 15 - 95% (non-condensing) Mechanical Protection IP65 (EN 60529) Vibrations Frequency 10 - 55 Hz 20 sweep per axis 1 octave / min (EN 60068-2-6) 1 octave / min (Wellow RAL 1003) front screen Protective Shield Material PMMA (Polymethylmethacrylate [acrylic)) Cap Material PC MAKROLON Weight 1.3 Kg / m | Cable Length (for supply power) | | | | |
| Resolution14mm30mmOperating Distance0.2 - 6 m0.2 - 19 mAperature Angle (EAA)±2.5° maximumAmbient Light RejectionIEC 61496-2Mechanical and Environmental Data0 to 55°C (32 to 131°F)Operating Temperature0 to 55°C (32 to 131°F)Storage Temperature-25 to 70°C (-13 to 158°F)Temperature ClassT6Humidity15 - 95% (non-condensing)Mechanical ProtectionIP65 (EN 60529)VibrationsFrequency 10 - 55 Hz 20 sweep per axis 1 octave / min (EN 60068-2-6)Housing MaterialPainted aluminum (yellow RAL 1003) front screenProtective Shield MaterialPMMA (Polymethylmethacrylate [acrylic])Cap MaterialPC MAKROLONWeight1.3 Kg / m | Optical Data | | | | |
| Operating Distance 0.2 - 6 m 0.2 - 19 m Aperature Angle (EAA) ±2.5° maximum Ambient Light Rejection IEC 61496-2 Mechanical and Environmental Data 0 to 55°C (32 to 131°F) Operating Temperature 0 to 55°C (32 to 131°F) Storage Temperature -25 to 70°C (-13 to 158°F) Temperature Class T6 Humidity 15 - 95% (non-condensing) Mechanical Protection IP65 (EN 60529) Vibrations Yibrations Frequency 10 - 55 Hz 20 sweep per axis 1 octave / min (EN 60068-2-6) Housing Material Painted aluminum (yellow RAL 1003) front screen Protective Shield Material PMMA (Polymethylmethacrylate [acrylic]) Cap Material PC MAKROLON Weight 1.3 Kg / m | Light Emission | | Infared LED (950nm) | | |
| Aperature Angle (EAA)±2.5° maximumAmbient Light RejectionIEC 61496-2Mechanical and Environmental DataOperating Temperature0 to 55°C (32 to 131°F)Storage Temperature-25 to 70°C (-13 to 158°F)Temperature ClassT6Humidity15 - 95% (non-condensing)Mechanical ProtectionIP65 (EN 60529)VibrationsFrequency 10 - 55 Hz 20 sweep per axis 1 octave / min (EN 60068-2-6)Housing MaterialPainted aluminum (yellow RAL 1003) front screenProtective Shield MaterialPMMA (Polymethylmethacrylate [acrylic])Cap MaterialPC MAKROLONWeight1.3 Kg / m | Resolution | 14mm | 30mm | | |
| Ambient Light RejectionIEC 61496-2Mechanical and Environmental DataOperating Temperature0 to 55°C (32 to 131°F)Storage Temperature-25 to 70°C (-13 to 158°F)Temperature ClassT6Humidity15 - 95% (non-condensing)Mechanical ProtectionIP65 (EN 60529)VibrationsFrequency 10 - 55 Hz 20 sweep per axisHousing MaterialPainted aluminum (yellow RAL 1003) front screenProtective Shield MaterialPMMA (Polymethylmethacrylate [acrylic])Cap MaterialPC MAKROLONWeight1.3 Kg / m | Operating Distance | 0.2 - 6 m | 0.2 - 19 m | | |
| Mechanical and Environmental DataOperating Temperature0 to 55°C (32 to 131°F)Storage Temperature-25 to 70°C (-13 to 158°F)Temperature ClassT6Humidity15 - 95% (non-condensing)Mechanical ProtectionIP65 (EN 60529)VibrationsWidth 0.35 mmVibrationsFrequency 10 - 55 Hz 20 sweep per axis 1 octave / min (EN 60068-2-6)Housing MaterialPainted aluminum (yellow RAL 1003) front screenProtective Shield MaterialPMMA (Polymethylmethacrylate [acrylic])Weight1.3 Kg / m | Aperature Angle (EAA) | | ±2.5° maximum | | |
| Operating Temperature0 to 55°C (32 to 131°F)Storage Temperature25 to 70°C (-13 to 158°F)Temperature ClassT6Humidity15 - 95% (non-condensing)Mechanical ProtectionIP65 (EN 60529)VibrationsWidth 0.35 mmVibrationsFrequency 10 - 55 Hz 20 sweep per axis 1 octave / min (EN 60068-2-6)Housing MaterialPainted aluminum (yellow RAL 1003) front screenProtective Shield MaterialPMMA (Polymethylmethacrylate [acrylic])Weight1.3 Kg / m | Ambient Light Rejection | IEC 61496-2 | | | |
| Storage Temperature-25 to 70°C (-13 to 158°F)Temperature ClassT6Humidity15 - 95% (non-condensing)Mechanical ProtectionIP65 (EN 60529)VibrationsWidth 0.35 mmVibrationsFrequency 10 - 55 Hz 20 sweep per axis 1 octave / min (EN 60068-2-6)Housing MaterialPainted aluminum (yellow RAL 1003) front screenProtective Shield MaterialPMMA (Polymethylmethacrylate [acrylic])Cap MaterialPC MAKROLONWeight1.3 Kg / m | Mechanical and Environmental Data | 1 | | | |
| Temperature ClassT6Humidity15 - 95% (non-condensing)Mechanical ProtectionIP65 (EN 60529)VibrationsWidth 0.35 mmVibrationsFrequency 10 - 55 Hz 20 sweep per axis 1 octave / min (EN 60068-2-6)Housing MaterialPainted aluminum (yellow RAL 1003) front screenProtective Shield MaterialPMMA (Polymethylmethacrylate [acrylic])Cap MaterialPC MAKROLONWeight1.3 Kg / m | Operating Temperature | 0 to 55°C (32 to 131°F) | | | |
| Humidity15 - 95% (non-condensing)Mechanical ProtectionIP65 (EN 60529)VibrationsWidth 0.35 mmVibrationsFrequency 10 - 55 Hz 20 sweep per axisHousing MaterialPainted aluminum (yellow RAL 1003) front screenProtective Shield MaterialPMMA (Polymethylmethacrylate [acrylic])Cap MaterialPC MAKROLONWeight1.3 Kg / m | Storage Temperature | -25 to 70°C (-13 to 158°F) | | | |
| Mechanical Protection IP65 (EN 60529) Width 0.35 mm Width 0.35 mm Vibrations Frequency 10 - 55 Hz 20 sweep per axis 1 octave / min (EN 60068-2-6) 1 octave / min (EN 60068-2-6) Housing Material Painted aluminum (yellow RAL 1003) front screen Protective Shield Material PMMA (Polymethylmethacrylate [acrylic]) Cap Material PC MAKROLON Weight 1.3 Kg / m | Temperature Class | | Т6 | | |
| Wibrations Width 0.35 mm Frequency 10 - 55 Hz 20 sweep per axis 1 octave / min (EN 60068-2-6) Housing Material Painted aluminum (yellow RAL 1003) front screen Protective Shield Material PMMA (Polymethylmethacrylate [acrylic]) Cap Material PC MAKROLON Weight 1.3 Kg / m | Humidity | 15 - 95% (non-condensing) | | | |
| Vibrations Frequency 10 - 55 Hz 20 sweep per axis 1 octave / min (EN 60068-2-6) 1 octave / min (EN 60068-2-6) Housing Material Painted aluminum (yellow RAL 1003) front screen Protective Shield Material PMMA (Polymethylmethacrylate [acrylic]) Cap Material PC MAKROLON Weight 1.3 Kg / m | Mechanical Protection | IP65 (EN 60529) | | | |
| I octave / min (EN 60068-2-6) Housing Material Protective Shield Material Protective Shield Material Cap Material PC MAKROLON Weight | | | Width 0.35 mm | | |
| Housing Material Painted aluminum (yellow RAL 1003) front screen Protective Shield Material PMMA (Polymethylmethacrylate [acrylic]) Cap Material PC MAKROLON Weight 1.3 Kg / m | Vibrations | Frequency 10 - 55 Hz 20 sweep per axis | | | |
| Protective Shield Material PMMA (Polymethylmethacrylate [acrylic]) Cap Material PC MAKROLON Weight 1.3 Kg / m | | 1 octave / min (EN 60068-2-6) | | | |
| Cap Material PC MAKROLON Weight 1.3 Kg / m | Housing Material | Painted aluminum (yellow RAL 1003) front screen | | | |
| Weight 1.3 Kg / m | Protective Shield Material | PMMA (Polymethylmethacrylate [acrylic]) | | | |
| | Cap Material | | PC MAKROLON | | |
| | Weight | | 1.3 Kg / m | | |
| Agency Approvais UL 22204/9, GE, 107, K0HS | Agency Approvals | | UL E226479, CE, TUV, RoHS | | |

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com

Status Indicators





www.automationdirect.com

tESC-4

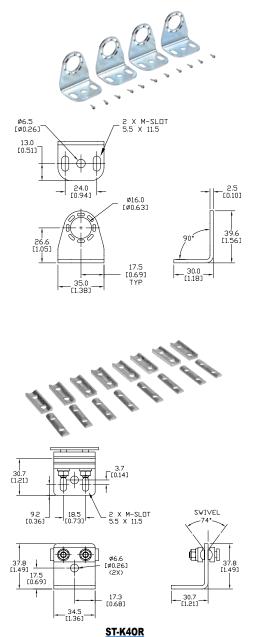
1-800-633-0405 Datalogic Safety Light Curtains **Output Output Output**</ **Accessories**

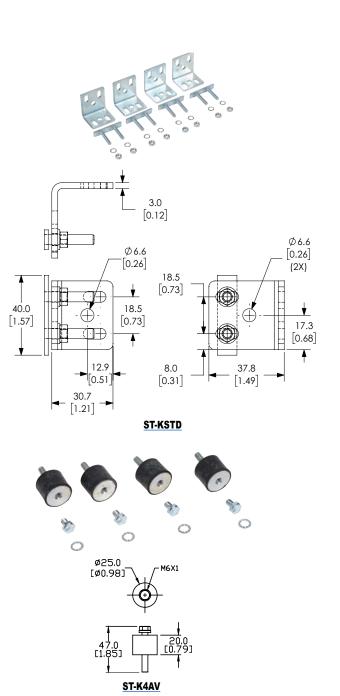
Mounting Brackets

| Datalogic Safety Light Curtains Mounting Accessories | | | | |
|--|---------|--|-----------------|--|
| Part Number | Price | Description | Qty Per Package | |
| ST-K4ROT | \$20.00 | Mounting brackets, rotational, metal, package of 4. For use with SG4 base series (-E) light curtains. | 4 | |
| <u>ST-KSTD</u> | \$10.00 | Mounting brackets, standard, metal, replacement, package of 4. For use with all SG4 series light curtains. | 4 | |
| <u>ST-K4OR</u> | \$47.00 | Mounting brackets, lateral orientable, metal, package of 4. For use with all SG4 series light curtains. | 4 | |
| <u>ST-K4AV</u> | \$20.00 | Mounting brackets, anti-vibration, metal, package of 4. For use with all SG4 series light curtains. | 4 | |

Dimensions

mm [in]





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Test Pieces

TP-14 and TP-30 test pieces are used to verify if the resolution of safety light curtains is maintained inside the entire detection field. TP-14 has a diameter of 14mm [0.55 in] and TP-30 has a diameter of 30mm [1.18 in]. Both models have an overall length of 300mm [11.81 in].

| Safety Light Curtains Test Pieces | | |
|-----------------------------------|---------|--|
| Part Number | Price | Description |
| <u>TP-14</u> | \$23.50 | Test rod for 14mm resolution finger detection light curtains, plastic, 14mm diameter |
| <u>TP-30</u> | \$25.50 | Test rod for 30mm resolution hand detection light curtains, plastic, 30mm diameter |



Safety Products



Warning: Safety products sold by AutomationDirect are Safety components only. The purchaser/installer is solely responsible for the application of these components and ensuring all necessary steps have been taken to assure each application and use meets all performance and applicable safety requirements and/or local, national and/or international safety codes as required by the application. AutomationDirect cannot certify that our products, used solely or in conjunction with other AutomationDirect or other vendors' products, will assure safety for any application. Any person using or applying any products sold by AutomationDirect is responsible for learning the safety requirements for their individual application and applying them, and therefore assumes all risks, and accepts full and complete responsibility, for the selection and suitability of the product for their respective application.

AutomationDirect does not provide design or consulting services, and cannot advise whether any specific application or use of our products would ensure compliance with the safety requirements for any application.