## 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



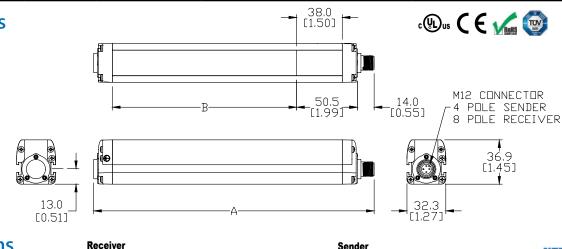
#### · Includes both sender and receiver

- 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]

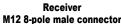
#### **Dimensions**

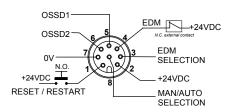
mm [in]



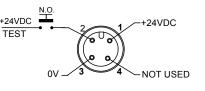
TEST

#### **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

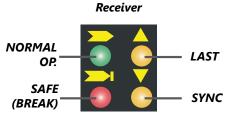
Note: Confirm the specific color to each pinout based on the cable used during installation.

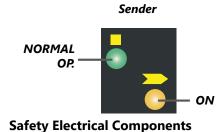
# 1-800-633-0405 For the latest prices, please check AutomationDirect.com. **Datalogic Safety Light Curtains & DATALOGIC Base Series**

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**





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tESC-4

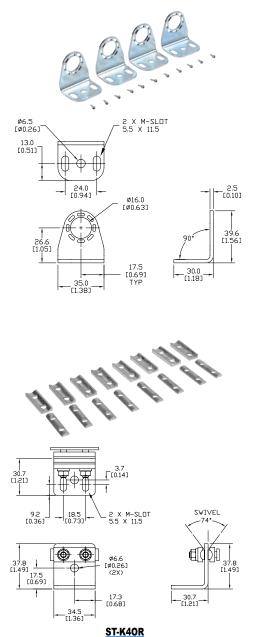
# 1-800-633-0405 Datalogic Safety Light Curtains **Output Output Output**</ **Accessories**

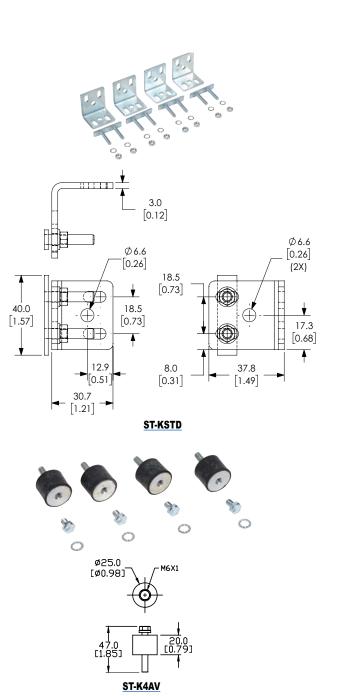
## **Mounting Brackets**

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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# 1-800-633-0405 Datalogic Safety Light Curtains COATALOGIC Accessories

#### **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.