

SG2 BASE / EXTENDED SG4 BASE

DATALOGIC

High reliability
Easy installation and alignment
Cost effective solution

- Finger, hand, arm detection with basic functions
- 90 mm version for presence detection
- Up to 20 m operating distance
- Compact dimensions (32.3 x 36.9 mm section)
- Anti interference coding
- IP65 Protection; IP69K with optional tube
- Unshielded cables
- Rotating and antivibration brackets



SAFETY

APPLICATIONS

- Automatic machines: cutting, packaging, material handling and storing.
- Automatic and semi-automatic assembling lines;
- Milling, lathe and shearing machines
- Bending and metal-working machines

INDUSTRIES

Food & Beverage, Textile, Wood, Ceramic, Metal, Automotive, Electronics.



	FINGER	HAND	ARM	BODY
TYPE 2		▪	▪	
TYPE 4	▪	▪		

SG2-30-015-00-E

TYPE	
2	Type 2
4	Type 4

RESOLUTION	
14	Finger: 14 mm
30	Hand: 30 mm
50	Arm: 50 mm (only Type 2)
90	Arm: 90 mm (only Type 2)

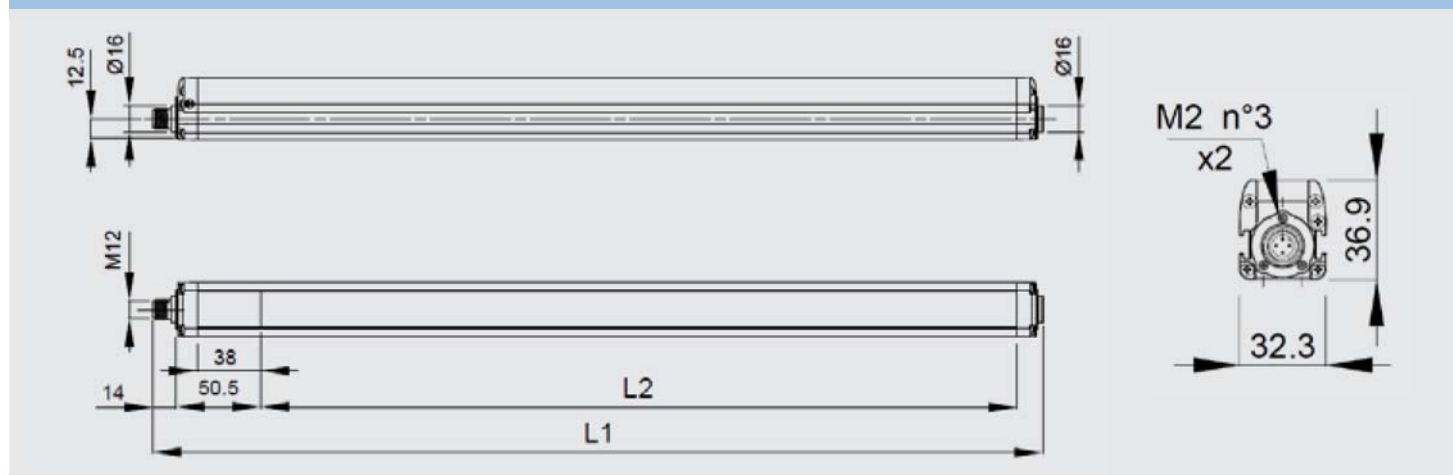
MONITORED HEIGHT	
15	150 mm
30	300 mm
...	...
180	1800mm

VERSION	
E	Type4, EDM, Coded
E-C	Type2, EDM, Coded
X	Basic Function

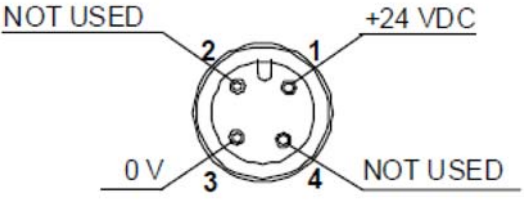
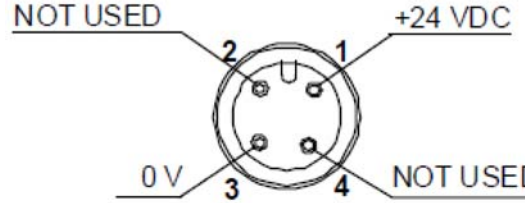
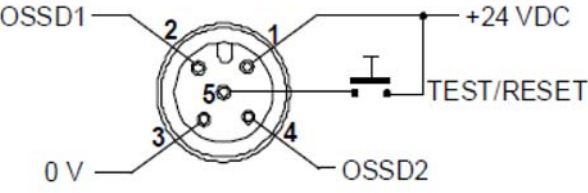
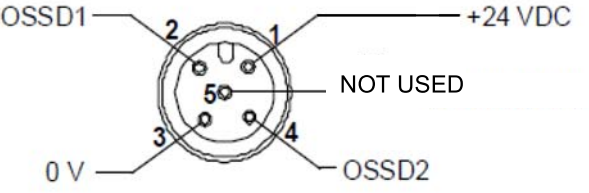
TECHNICAL DATA

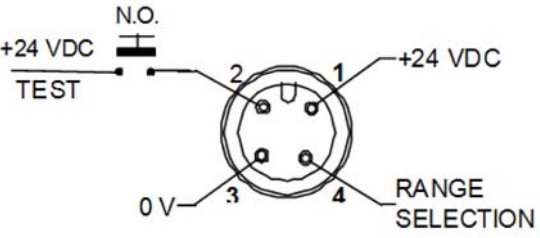
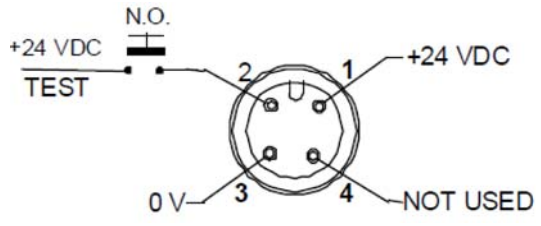
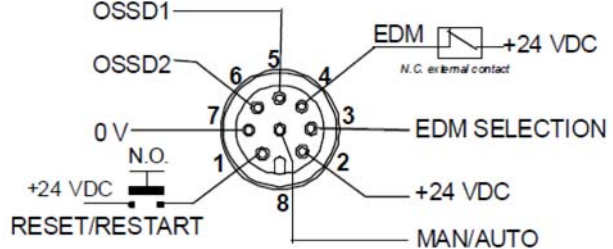
	SG2 BASE [SG2-xx-xxx-00-X]	SG2 EXTENDED [SG2-xx-xxx-00-E-C]	SG4 BASE [SG4-xx-xxx-00-X]	SG4 BASE [SG4-xx-xxx-00-E]
GENERAL DATA				
Type (EN61496-1)	2		4	
PL (EN ISO 13849-1)	c		e	
SIL (IEC 61508)	1		3	
Resolution	30 – 50 – 90 mm		14 – 30 mm	
Protected height	150 ...1800 mm (with 150 mm steps)			
Operating distance	0.2 ...19 m		0.2 ... 6 m (resolution 14 mm) 0.2 ...19 m (resolution 30 mm)	
ELECTRICAL DATA				
Power supply (Vdd)	24 Vdc ± 20			
Outputs	2 PNP			
Output current	0.5 A max / each output			
Capacitive load	2.2 uF @ 24Vdc max			
Response time	8 ... 19 ms depending on model *			
Cables length (for power supply)	50 m max			
MECHANICAL AND ENVIRONMENTAL DATA				
Operating temperature	-10 ...+55 °C		0 ...+55 °C	
Humidity	15 ... 95 % (no condensation)			
Mechanical protection	IP 65 (EN 60529)			
FUNCTIONS				
Test Input	On Receiver	On Emitter	N/A	On Emitter
Restart	Automatic	Manual / Automatic	Automatic	Manual / Automatic
EDM (External Device Monitoring)	N/A	On Receiver	N/A	On Receiver
Selectable Operating Distance	N/A	On Emitter	N/A	
* For detailed informations refer to related Manual				

DIMENSIONS

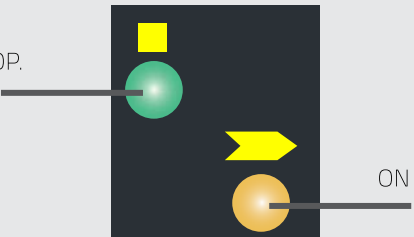
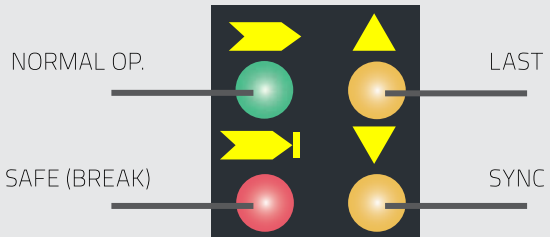


MODEL	L1 (MM)	L2 (MM)
SGx-yy-150-00-kkk	233.3	153.3
SGx-yy-030-00-kkk	383.2	303.2
SGx-yy-045-00-kkk	533.2	453.3
SGx-yy-060-00-kkk	683.2	603.2
SGx-yy-075-00-kkk	833.2	753.3
SGx-yy-090-00-kkk	983.2	903.2
SGx-yy-105-00-kkk	1133.2	1053.2
SGx-yy-120-00-kkk	1283.3	1203.3
SGx-yy-135-00-kkk	1433.2	1353.2
SGx-yy-150-00-kkk	1583.3	1503.3
SGx-yy-165-00-kkk	1733.3	1653.3
SGx-yy-180-00-kkk	1883.3	1803.3

CONNECTION		
	SG2 BASE [SG2-XX-XXX-00-X]	SG4 BASE [SG4-XX-XXX-00-X]
EMITTER		
RECEIVER		

CONNECTION		
	SG2 EXTENDED [SG2-XX-XXX-00-E-C]	SG4 BASE [SG4-XX-XXX-00-E]
EMITTER		
RECEIVER		

NOTES		
To set manual restart, connect Pin 8 (MAN/AUTO) with Pin 6 (OSSD2)		
To deactivate EDM function, connect Rx Pin 3 to 24Vdc on Receiver		

INDICATORS		
Emitter  Receiver 		

SG2 BASE / EXTENDED SG4 BASE



MODEL SELECTION AND ORDER INFORMATION

	SG2 BASE [SG2-XX-XXX-00-X]	ORDER CODE	SG2 EXTENDED [SG2-XX-XXX-00-E-C]	ORDER CODE
HAND PROTECTION	SG2-30-015-00-X	957801000	SG2-30-015-00-E-C	957801340
	SG2-30-030-00-X	957801010	SG2-30-030-00-E-C	957801350
	SG2-30-045-00-X	957801020	SG2-30-045-00-E-C	957801360
	SG2-30-060-00-X	957801030	SG2-30-060-00-E-C	957801370
	SG2-30-075-00-X	957801040	SG2-30-075-00-E-C	957801380
	SG2-30-090-00-X	957801050	SG2-30-090-00-E-C	957801390
	SG2-30-105-00-X	957801060	SG2-30-105-00-E-C	957801400
	SG2-30-120-00-X	957801070	SG2-30-120-00-E-C	957801410
	SG2-30-135-00-X	957801080	SG2-30-135-00-E-C	957801420
	SG2-30-150-00-X	957801090	SG2-30-150-00-E-C	957801430
	SG2-30-165-00-X	957801100	SG2-30-165-00-E-C	957801440
	SG2-30-180-00-X	957801110	SG2-30-180-00-E-C	957801450
PRESENCE / ARM DETECTION	SG2-50-030-00-X	957801120	SG2-50-030-00-E-C	957801460
	SG2-50-045-00-X	957801130	SG2-50-045-00-E-C	957801470
	SG2-50-060-00-X	957801140	SG2-50-060-00-E-C	957801480
	SG2-50-075-00-X	957801150	SG2-50-075-00-E-C	957801490
	SG2-50-090-00-X	957801160	SG2-50-090-00-E-C	957801500
	SG2-50-105-00-X	957801170	SG2-50-105-00-E-C	957801510
	SG2-50-120-00-X	957801180	SG2-50-120-00-E-C	957801520
	SG2-50-135-00-X	957801190	SG2-50-135-00-E-C	957801530
	SG2-50-150-00-X	957801200	SG2-50-150-00-E-C	957801540
	SG2-50-165-00-X	957801210	SG2-50-165-00-E-C	957801550
	SG2-50-180-00-X	957801220	SG2-50-180-00-E-C	957801560
	SG2-90-030-00-X	957801230	SG2-90-030-00-E-C	957801570
	SG2-90-045-00-X	957801240	SG2-90-045-00-E-C	957801580
	SG2-90-060-00-X	957801250	SG2-90-060-00-E-C	957801590
	SG2-90-075-00-X	957801260	SG2-90-075-00-E-C	957801600
	SG2-90-090-00-X	957801270	SG2-90-090-00-E-C	957801610
	SG2-90-105-00-X	957801280	SG2-90-105-00-E-C	957801620
	SG2-90-120-00-X	957801290	SG2-90-120-00-E-C	957801630
	SG2-90-135-00-X	957801300	SG2-90-135-00-E-C	957801640
	SG2-90-150-00-X	957801310	SG2-90-150-00-E-C	957801650
	SG2-90-165-00-X	957801320	SG2-90-165-00-E-C	957801660
	SG2-90-180-00-X	957801330	SG2-90-180-00-E-C	957801670

SG2 BASE / EXTENDED SG4 BASE



	SG2 BASE [SG2-XX-XXX-00-X]	ORDER CODE	SG4 BASE [SG4-XX-XXX-00-E]	ORDER CODE
FINGER PROTECTION	SG4-14-015-00-X	957901460	SG4-14-015-00-E	957901000
	SG4-14-030-00-X	957901470	SG4-14-030-00-E	957901010
	SG4-14-045-00-X	957901480	SG4-14-045-00-E	957901020
	SG4-14-060-00-X	957901490	SG4-14-060-00-E	957901030
	SG4-14-075-00-X	957901500	SG4-14-075-00-E	957901040
	SG4-14-090-00-X	957901510	SG4-14-090-00-E	957901050
	SG4-14-105-00-X	957901520	SG4-14-105-00-E	957901060
	SG4-14-120-00-X	957901530	SG4-14-120-00-E	957901070
	SG4-14-135-00-X	957901540	SG4-14-135-00-E	957901080
	SG4-14-150-00-X	957901550	SG4-14-150-00-E	957901090
HAND PROTECTION	SG4-14-165-00-X	957901560	SG4-14-165-00-E	957901100
	SG4-14-180-00-X	957901570	SG4-14-180-00-E	957901110
	SG4-30-015-00-X	957901690	SG4-30-015-00-E	957901120
	SG4-30-030-00-X	957901580	SG4-30-030-00-E	957901130
	SG4-30-045-00-X	957901590	SG4-30-045-00-E	957901140
	SG4-30-060-00-X	957901600	SG4-30-060-00-E	957901150
	SG4-30-075-00-X	957901610	SG4-30-075-00-E	957901160
	SG4-30-090-00-X	957901620	SG4-30-090-00-E	957901170
	SG4-30-105-00-X	957901630	SG4-30-105-00-E	957901180
	SG4-30-120-00-X	957901640	SG4-30-120-00-E	957901190
	SG4-30-135-00-X	957901650	SG4-30-135-00-E	957901200
	SG4-30-150-00-X	957901660	SG4-30-150-00-E	957901210
	SG4-30-165-00-X	957901670	SG4-30-165-00-E	957901220
	SG4-30-180-00-X	957901680	SG4-30-180-00-E	957901230

CABLES

	POLES	TRANSMITTER CABLE	LENGTH (M)	ORDER CODE
SG2 BASE [SG2-xx-xxx-00-X] SG2 EXTENDED [SG2-xx-xxx-00-E-C] SG4 BASE [SG4-xx-xxx-00-X] [SG4-xx-xxx-00-E]	4	CS-A1-02-U-03	3	95ASE1120
		CS-A1-02-U-05	5	95ASE1130
		CS-A1-02-U-10	10	95ASE1140
		CS-A1-02-U-15	15	95ASE1150
		CS-A1-02-U-25	25	95ASE1160
SG4 BASE [SG4-xx-xxx-00-E]	4	RECEIVER CABLE	LENGTH (M)	ORDER CODE
		CS-A1-02-U-03	3	95ASE1120
		CS-A1-02-U-05	5	95ASE1130
		CS-A1-02-U-10	10	95ASE1140
SG2 BASE [SG2-xx-xxx-00-X]	5	CS-A1-02-U-15	15	95ASE1150
		CS-A1-03-U-03	3	95ASE1170
		CS-A1-03-U-05	5	95ASE1180
		CS-A1-03-U-10	10	95ASE1190
		CS-A1-03-U-15	15	95ASE1200
SG2 EXTENDED [SG2-xx-xxx-00-E-C] SG4 BASE [SG4-xx-xxx-00-E]	8	CS-A1-03-U-25	25	95ASE1210
		CS-A1-06-U-03	3	95ASE1220
		CS-A1-06-U-05	5	95ASE1230
		CS-A1-06-U-10	10	95ASE1240
		CS-A1-06-U-15	15	95ASE1250
		CS-A1-06-U-25	25	95ASE1260

NOTE

All cables have axial connectors

ACCESSORIES

	SG2 BASE [SG2-xx-xxx-00-X]	SG2 EXTENDED [SG2-xx-xxx-00-E-C]	SG4 BASE [SG4-xx-xxx-00-X]	SG4 BASE [SG4-xx-xxx-00-E]
BRACKETS				
Standard angled brackets	ST-KSTD (outfit for SG2 Base and SG4 Base)			
Rotating brackets	ST-K4ROT (outfit for SG2 Extended)			
Antivibration support (4 pcs / 6 pcs)*	ST-K4AV ST-K6AV			
Plastic brackets (4 pcs / 6 pcs)*	ST-KP4MP ST-KP6MP			
PROTECTION TUBES AND STANDS				
IP67/IP69K Tubes	SG-IP69K series			
Protective Stands	SG-PSB series			
Stand Plate for SG-PSB	SG-P			
Protective Stands Mounting Brackets (4 pcs / 6 pcs)*	ST-PS4-SG-SE ST-PS6-SG-SE			
Floor Columns	SE-S Series			
MIRRORS				
Deviating Mirrors	SG-DM Series			
Deviating Mirrors mounting kit for SG-PSB	ST-PS-DM			
Mirror Mounting Bracket	ST-DM			
SAFETY UNITS				
Safety Unit	SE-SR2			
EDM Relay Box**	-----	CS ME-03VU24-Y14	-----	CS ME-03VU24-Y14
Safety control unit for single beams and SLC	SG-BWS-T4-MT			
ALIGNMENT TOOL				
LASER Pointer	SG-LP			
NOTES				
* Use 6 brackets for light curtains with length >= 1200 mm				
** When using EDM Relay Box or Muting connection box, connect EDM input, and be sure EDM function is active on the safety light curtain				
For accessories part number, please refer to Safety Reference Guide				