

# SG2 BASE / SG2 EXTENDED SG4 BASE



High reliability  
Easy installation and alignment  
Cost effective

- Finger, hand, arm detection with basic functions
- 90 mm version for presence detection
- Up to 19 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 anti-vibration brackets

## APPLICATIONS

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

## INDUSTRIES

- Food & Beverage
- Textile
- Metalworking
- Ceramic
- Metal
- Automotive
- Electronics

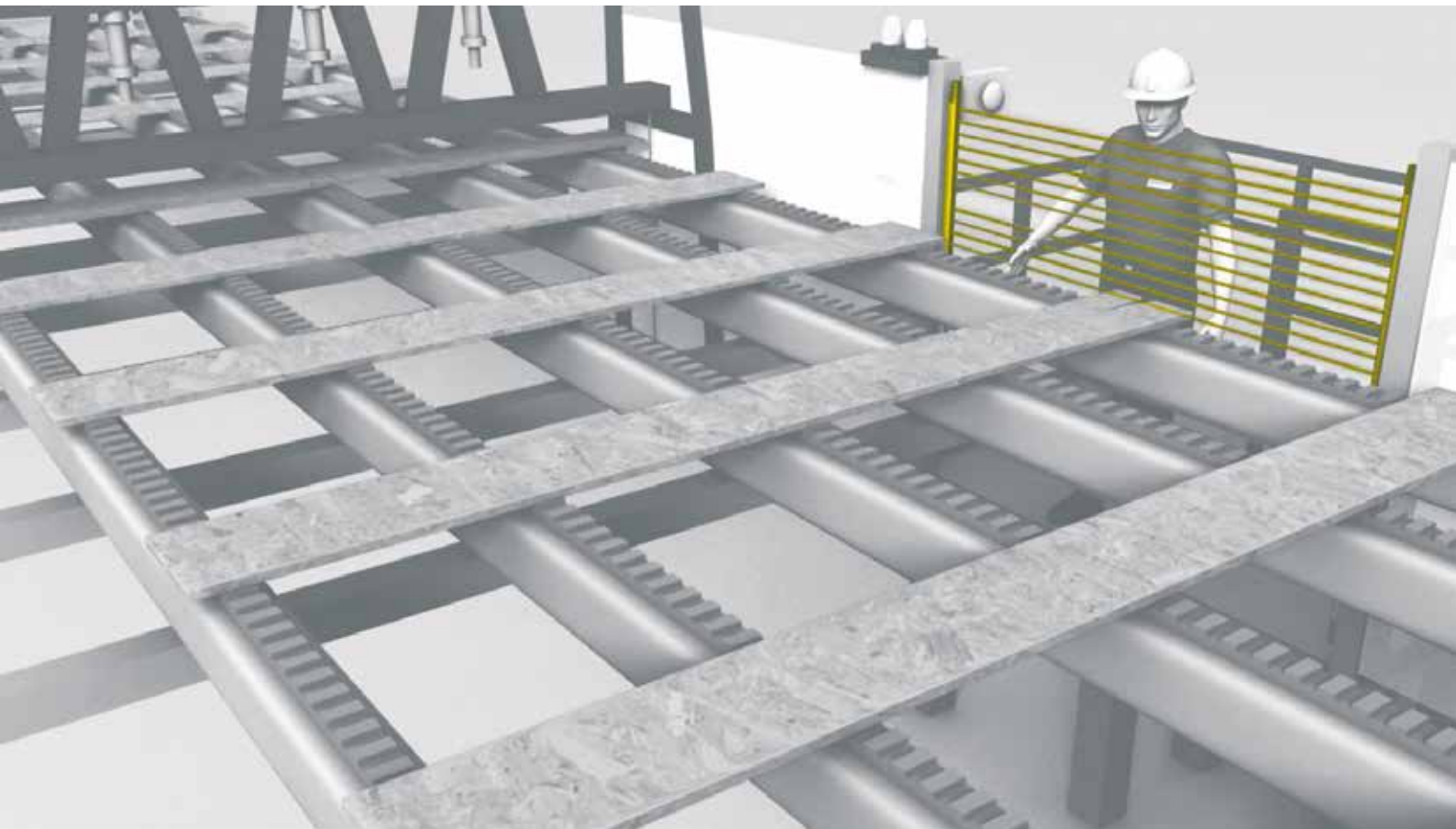
	FINGER	HAND	ARM	BODY
Type 2		x	x	
Type 4	x	x		x

**SG** **2** - **30** - **015** - **00** - **E**

TYPE		RESOLUTION		MONITORED HEIGHT		VERSION	
2	Type 2	14	Finger: 14 mm	15	150 mm	E	Type4, EDM, Coded
4	Type 4	30	Hand: 30 mm	30	300 mm	E-C	Type2, EDM, Coded
		50	Arm: 50 mm (only Type 2)	...	...	X	Basic Function
		90	Arm: 90 mm (only Type 2)	180	1800mm		

# 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]
<b>GENERAL DATA</b>				
<b>Type (EN61496-1)</b>	2		4	
<b>PL (EN ISO 13849-1)</b>	c		e	
<b>SIL (IEC 61508)</b>	1		3	
<b>Resolution</b>	30 - 50 - 90 mm		14 - 30 mm	
<b>Protected height</b>	150 ...1800 mm (with 150 mm steps)			
<b>Operating distance</b>	0.2 ...19 m		0.2 ... 6 m (resolution 14 mm) 0.2 ...19 m (resolution 30 mm)	
<b>ELECTRICAL DATA</b>				
<b>Power supply (Vdd)</b>	24 Vdc ± 20			
<b>Outputs</b>	2 PNP			
<b>Output current</b>	0.5 A max / each output			
<b>Capacitive load</b>	2.2 uF @ 24Vdc max			
<b>Response time</b>	8 ... 24 ms		9 ... 50 ms	
<b>Cables length (for power supply)</b>	50 m max			
<b>MECHANICAL AND ENVIRONMENTAL DATA</b>				
<b>Operating temperature</b>	-10 ...+55 °C		0 ...+55 °C	
<b>Humidity</b>	15 ... 95 % (no condensation)			
<b>Mechanical protection</b>	IP 65 (EN 60529)			
<b>Housing Material</b>	Painted aluminium, Polycarbonate			
<b>Window material</b>	PMMA			
<b>FUNCTION</b>				
<b>Test Input</b>	On Receiver	On Emitter	N/A	On Emitter
<b>Restart</b>	Automatic	Manual / Automatic	Automatic	Manual / Automatic
<b>EDM (External Device Monitoring)</b>	N/A	On Receiver	N/A	On Receiver
<b>Selectable Operating Distance</b>	N/A	On Emitter	N/A	



# MODEL SELECTION AND ORDER INFORMATION

	SG2 BASE [SG2-XX-XXX-00-X]	ORDER CODE	SG2 EXTENDED [SG2-XX-XXX-00- E-C]	ORDER CODE	SG4-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
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	---	---	---	---	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
	---	---	---	---	SG4-14-165-00-X	957901560	SG4-14-165-00-E	957901100
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HAND PROTECTION	SG2-30-015-00-X	957801000	SG2-30-015-00-E-C	957801340	SG4-30-015-00-X	957901690	SG4-30-015-00-E	957901120
	SG2-30-030-00-X	957801010	SG2-30-030-00-E-C	957801350	SG4-30-030-00-X	957901580	SG4-30-030-00-E	957901130
	SG2-30-045-00-X	957801020	SG2-30-045-00-E-C	957801360	SG4-30-045-00-X	957901590	SG4-30-045-00-E	957901140
	SG2-30-060-00-X	957801030	SG2-30-060-00-E-C	957801370	SG4-30-060-00-X	957901600	SG4-30-060-00-E	957901150
	SG2-30-075-00-X	957801040	SG2-30-075-00-E-C	957801380	SG4-30-075-00-X	957901610	SG4-30-075-00-E	957901160
	SG2-30-090-00-X	957801050	SG2-30-090-00-E-C	957801390	SG4-30-090-00-X	957901620	SG4-30-090-00-E	957901170
	SG2-30-105-00-X	957801060	SG2-30-105-00-E-C	957801400	SG4-30-105-00-X	957901630	SG4-30-105-00-E	957901180
	SG2-30-120-00-X	957801070	SG2-30-120-00-E-C	957801410	SG4-30-120-00-X	957901640	SG4-30-120-00-E	957901190
	SG2-30-135-00-X	957801080	SG2-30-135-00-E-C	957801420	SG4-30-135-00-X	957901650	SG4-30-135-00-E	957901200
	SG2-30-150-00-X	957801090	SG2-30-150-00-E-C	957801430	SG4-30-150-00-X	957901660	SG4-30-150-00-E	957901210
	SG2-30-165-00-X	957801100	SG2-30-165-00-E-C	957801440	SG4-30-165-00-X	957901670	SG4-30-165-00-E	957901220
SG2-30-180-00-X	957801110	SG2-30-180-00-E-C	957801450	SG4-30-180-00-X	957901680	SG4-30-180-00-E	957901230	
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	---	---	---	---	