



# SGS Safety Grid System

## Important Information

The SGS Safety Grid System instruction manual with installation instructions, application requirements and guidelines, EC Declaration of Conformity, and technical specifications can be downloaded from [www.bannerengineering.com](http://www.bannerengineering.com) by searching for one of the following part numbers:

- Emitter/Receiver (SGSS and SGSX models, shipped in pairs): 202015
- Emitter/Receiver with Integral Muting (SGSM models, shipped in pairs): 203065
- Active/Passive (SGSSA and SGSB models, ordered separately): 203063
- Active/Passive with Integral Muting (SGSMA and SGSB models, ordered separately): 203064

The full instruction manual contains important warnings and safety instructions that must be observed prior to the installation and operation of the device. Download the full instruction manual and checkout cards (listed in the manual) from [www.bannerengineering.com](http://www.bannerengineering.com). If there are any questions regarding the application or use of the device, contact Banner Engineering at (763) 544-3164 or at 1-888-3-SENSOR in the United States.

**Table 1:**SGS Safety Grid System Emitter/Receiver Models

Model	Beams	Beam Spacing (mm)	Protected Height (mm)	Response Time (ms) (with no scan code)	Response Time (ms) (with scan code)	Operating Range (m)
SGSSP2-500Q88	2	500	500	12	19	0.5 to 30
SGSSP3-400Q88	3	400	800	13	22	
SGSSP4-300Q88	4	300	900	14	25	
SGSSP4-400Q88	4	400	1200	14	25	
SGSXP2-500Q88	2	500	500	12	19	6 to 60
SGSXP3-400Q88	3	400	800	13	22	
SGSXP4-300Q88	4	300	900	14	25	
SGSXP4-400Q88	4	400	1200	14	25	

**Table 2:**SGS Safety Grid System Emitter/Receiver with Integral Muting Models

Model	Beams	Beam Spacing (mm)	Protected Height (mm)	Response Time (ms) (with no scan code)	Response Time (ms) (with scan code)	Operating Range (m)
SGSMP2-500Q128	2	500	500	12	19	0.5 to 30
SGSMP3-400Q128	3	400	800	13	22	
SGSMP4-300Q128	4	300	900	14	25	
SGSMP4-400Q128	4	400	1200	14	25	

**Table 3:**SGS Safety Grid System Active/Passive Models

Model	Type of Unit	Equivalent Beams	Beam Spacing (mm)	Protected Height (mm)	Response time (ms)	Range (m)
SGSSA2-500Q8	Active Transceiver	2	500	500	11	0.5 to 8
SGSSA3-400Q8		3	380	800	12	0.5 to 8
SGSSA4-300Q8		4	300	900	12	0.5 to 6.5
SGSSA4-400Q8		4	400	1200	12	0.5 to 8
SGSB2-500	Mirror Assembly	-	500	-	-	-
SGSB3-400		-	380			
SGSB4-300		-	300			
SGSB4-400		-	400			

**Table 4:**SGS Safety Grid System Active/Passive with Integral Muting Models

Model	Type of Unit	Equivalent Beams	Beam Spacing (mm)	Protected Height (mm)	Response time (ms)	Range (m)
SGSMA2-500Q12	Active Transceiver	2	500	500	11	0.5 to 8
SGSMA3-400Q12		3	380	800	12	0.5 to 8
SGSMA4-300Q12		4	300	900	12	0.5 to 6.5
SGSMA4-400Q12		4	400	1200	12	0.5 to 8
SGSB2-500	Mirror Assembly	-	500	-	-	-
SGSB3-400		-	380			
SGSB4-300		-	300			
SGSB4-400		-	400			

## Banner Engineering Corp Limited Warranty

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application or installation of the Banner product.

**THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER EXPRESS OR IMPLIED (INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), AND WHETHER ARISING UNDER COURSE OF PERFORMANCE, COURSE OF DEALING OR TRADE USAGE.**

This Warranty is exclusive and limited to repair or, at the discretion of Banner Engineering Corp., replacement. **IN NO EVENT SHALL BANNER ENGINEERING CORP. BE LIABLE TO BUYER OR ANY OTHER PERSON OR ENTITY FOR ANY EXTRA COSTS, EXPENSES, LOSSES, LOSS OF PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM ANY PRODUCT DEFECT OR FROM THE USE OR INABILITY TO USE THE PRODUCT, WHETHER ARISING IN CONTRACT OR WARRANTY, STATUTE, TORT, STRICT LIABILITY, NEGLIGENCE, OR OTHERWISE.**

Banner Engineering Corp. reserves the right to change, modify or improve the design of the product without assuming any obligations or liabilities relating to any product previously manufactured by Banner Engineering Corp. Any misuse, abuse, or improper application or installation of this product or use of the product for personal protection applications when the product is identified as not intended for such purposes will void the product warranty. Any modifications to this product without prior express approval by Banner Engineering Corp will void the product warranties. All specifications published in this document are subject to change; Banner reserves the right to modify product specifications or update documentation at any time. Specifications and product information in English supersede that which is provided in any other language. For the most recent version of any documentation, refer to: [www.bannerengineering.com](http://www.bannerengineering.com).

For patent information, see [www.bannerengineering.com/patents](http://www.bannerengineering.com/patents).

Document title: SGS Safety Grid System Datasheet  
Part number: 203637  
Revision: B  
Original Instructions  
© Banner Engineering Corp. All rights reserved.

