Subject to modification in technic and design. Errors and omissions excepted.

Acceleration sensors

With relay output for limit monitoring Analog / CANopen®

GAM900



GAM900

Features

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- Acceleration sensor / analog / CANopen®
- Up to two relay outputs for limit monitoring
- 3 axes detection, MEMS based
- Measuring range ±2 g
- Connection: connector M12, 12-pin
- Offshore capability (plastic housing)

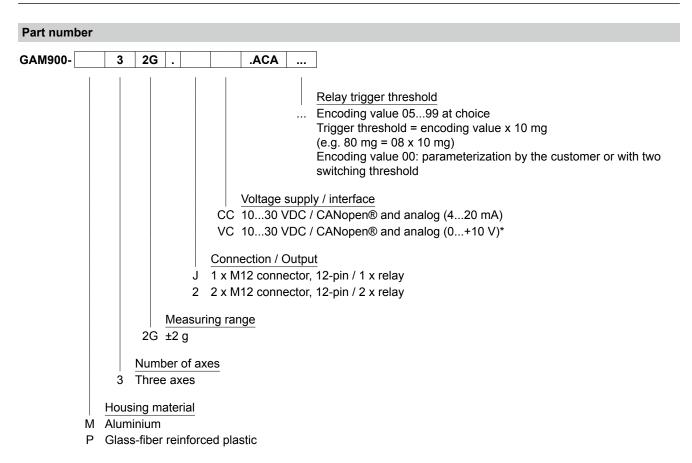
Technical data - electrical ratings				
Voltage supply	1030 VDC			
Reverse polarity protection	Yes			
Consumption w/o load	≤200 mA (24 VDC)			
Initializing time	≤2000 ms after power on			
Interfaces	CANopen®, Analog (420 mA or 010 V)			
Frequency bands	6 (configurable)			
Measuring range	±2 g			
Resolution	<4 mg			
Accuracy 3σ (with band pass filtering)	=35 mg (in the range of ±1000 mg) =10 mg (in the range of ±250 mg)			
Interference immunity	DIN EN 61000-6-2 EN 61326-3-1			
Emitted interference	DIN EN 61000-6-4			
Status indicator	DUO-LED integrated in housing			
Approval	UL approval / E63076			

Technical data - mechanical design			
Dimensions W x H x L	55 x 30 x 90 mm		
Protection DIN EN 60529	IP 67		
Materials	GAM900-M: aluminium GAM900-P: Glass-fiber reinforced plastic		
Operating temperature	-40+85 °C		
Resistance	DIN EN 60068-2-6 Vibration 20 g, 60-2000 Hz DIN EN 60068-2-27 Shock 100 g, 6 ms		
Weight approx.	200 g (plastic), 250 g (aluminium)		
Connection	Connector M12, 12-pin		

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^{*} On request

Accessories				
Connectors and cables				
11142900	Female connector M12, 12-pin, 1 m cable (Z 201.M01)			
11138627	Female connector M12, 12-pin, 5 m cable (Z 201.M05)			
11142902	Female connector M12, 12-pin, 10 m cable (Z 201.M10)			



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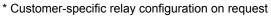
Acceleration sensors

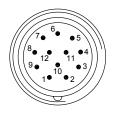
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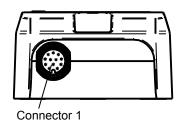
GAM900

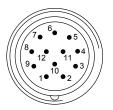
Terminal	assignment		
Connecto	or 1, connector M12, 12-pin	Connecto	or 2, connector M12, 12-pin
Pin	Description	Pin	Description
Pin 1	GND	Pin 1	Relay 2 / contact CO*
Pin 2	Test input	Pin 2	n.c.
Pin 3	UB	Pin 3	n.c.
Pin 4	Analog ground	Pin 4	n.c.
Pin 5	Analog output X	Pin 5	n.c.
Pin 6	Analog output Y	Pin 6	n.c.
Pin 7	Relay 1 / contact NO*	Pin 7	n.c.
Pin 8	CAN Ground	Pin 8	CAN Ground
Pin 9	Relay 1 / contact CO*	Pin 9	Relay 2 / contact NO*
Pin 10	Relay 1 / contact NC*	Pin 10	Relay 2 / contact NC*
Pin 11	CAN Low	Pin 11	CAN Low
Pin 12	CAN High	Pin 12	CAN High

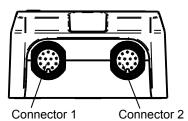
	,
Pin	Description
Pin 1	Relay 2 / contact CO*
Pin 2	n.c.
Pin 3	n.c.
Pin 4	n.c.
Pin 5	n.c.
Pin 6	n.c.
Pin 7	n.c.
Pin 8	CAN Ground
Pin 9	Relay 2 / contact NO*
Pin 10	Relay 2 / contact NC*
Pin 11	CAN Low
Pin 12	CAN High











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Configuration profile						
Band	CANopen 1	CANopen 2	CANopen 3	CANopen 4	Analog 1	Analog 2
Direction	Х	Υ	Z	X,Y	Х	Υ
Range	±2 g	±2 g	±2 g	±2 g	±0.5 g	±0.5 g
Resolution	1.00 mg	1.00 mg	1.00 mg	1.00 mg	0.244 mg	0.244 mg
Filter type	Bandpass	Bandpass	Bandpass	Bandpass	Bandpass	Bandpass
Filter order	4	4	4	4	4	4
Bandwidth	0.0525 Hz	0.0525 Hz	0.0525 Hz	0.0525 Hz	0.0525 Hz	0.0525 Hz
Relay ID	2	2	_	1	_	_
Relay attack value	see part no.	see part no.	_	see part no.	_	_
Relay attack time	0 s	0 s	_	0 s	_	_
Relay decay value	100 %	100 %	_	100 %	_	-
Relay decay time	1 s	1 s	_	1 s	_	_

Different configurations on request.

Installation position



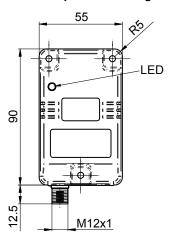
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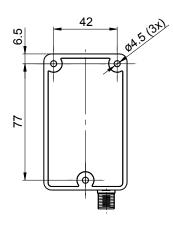
GAM900

Dimensions

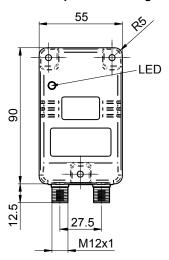
GAM900 - plastic housing 1x connector M12



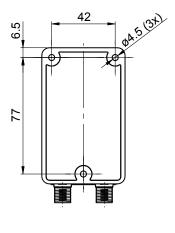




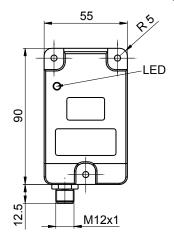
GAM900 - plastic housing 2x connector M12



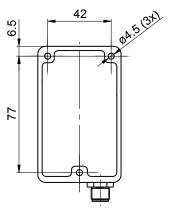


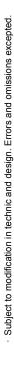


GAM900 - aluminium housing 1x connector M12









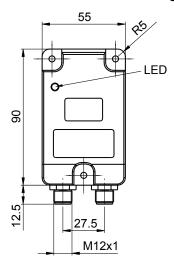
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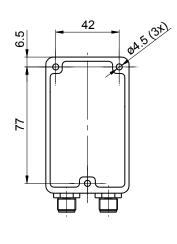
GAM900

Dimensions

GAM900 - aluminium housing 2x connector M12







6/5/2019