SBY457

Flow transmitters with fast response time





Please note the changed housing design! 27 9 M8x6/8 M12 Rp11/2 21 21 121,5 132,8



Product characteristics					
Measuring range	[l/min]	8200			
Process connection		Rp 1 1/2			
Application					
Media Liquids; water; glycol solutions;					
Media		Liquids; water; glycol solutions; Coolants			
Media Medium temperature	[°C]	Liquids; water; glycol solutions; Coolants -10100			
	[°C]				

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Separating voltage V	Electrical data						
Protection class III	Operating voltage	[V]	1832 DC; (to SELV/PELV)			
Notestand Procession Proc	Current consumption	[mA]	< 35				
Outputs signal analog signal Analog current output [mA] 420 Max. load [0] 500 Short-circuit protection yes Overload protection yes Measuring range [/min] 8200 Accuracy / deviations Repeatability 1 fleasuring error [% of the final value] ±5 Reaction times Response time [\$] < 0.01	Protection class		III				
Output signal analog signal Analog current output [mA] 420 Max. load [Q] 500 Short-circuit protection yes Overload protection yes Measuring/setting range [Min] 8200 Accuracy / deviations Repeatability 1 1 [% of the final value] ± 5 1 Reaction times Response time [s] < 0.01	Reverse polarity protection		yes				
Analog current output [mA] Max. load [Q] Short-circuit protection Overload protection Weasuring/setting range Measuring/setting range Measuring ror [% of the final value] Measuring error [% of the final value] Measuring conditions Repeatability Operating conditions Response time [S] Operating conditions Anbient temperature [°C] Storage temperature [°C] Storage temperature [°C] Storage temperature [°C] Tests / approvals EMC DIN EN 61000-6-2 DIN EN 61000-6-3 Shock resistance DIN EN 60068-2-27 DIN EN 60068-2-7 DIN EN 60068-2-7 DIN EN 60068-2-6 Sponse time Mechanical data Weight [g] Materials Mechanical data Weight [g] Materials (wetted parts) Tests connection Repl 1/2 Switching cycles mechanical Remarks Recommendation Use 200 micron filtration All data refer to water (20 °C). Please note the changed housing designt	Outputs						
Max. load [Q] 500 500 Short-circuit protection yes	Output signal		analog signal				
Short-circuit protection	Analog current output	[mA]					
Overload protection yes Measuring range [I/min] 8200 Accuracy / deviations Repeatability Repeatability 1 Measuring error [% of the final value] ± 5 Reaction times *** Response time [\$] < 0.01 Operating conditions *** Ambient temperature [*C] 060 Storage temperature [*C] -1580 Protection IP 65; IP 67 Tests / approvals *** EMC DIN EN 61000-6-2 DIN EN 61000-6-3 2 Shock resistance DIN EN 60068-2-27 20 g (11 ms) Vibration resistance DIN EN 60068-2-6 5 g (102000 Hz) MTTF [years] 778 Mechanical data ** ** Weight [g] brass chemically nickel-plated; PP; stainless steel (1.4404 / 316L); aluminum anodized; PA Materials (wetted parts) stainless steel (1.4401 / 316); brass; brass chemically nickel-plated; PP; PPS; spacer: PDM; O-ring: FKM Process connection Rp 1 1/2 <td>Max. load</td> <td>[Ω]</td> <td colspan="2"></td>	Max. load	[Ω]					
Measuring/setting range [//min] 8200 Accuracy / deviations Repeatability 1 Measuring error (% of the final value) ± 5 Reaction times Response time [s] < 0.01 Operating conditions Ambient temperature (°C) 060 Storage temperature (°C) -1580 Protection IP 65; IP 67 Tests / approvals EMC DIN EN 61000-6-2 DIN EN 61000-6-2 DIN EN 60068-2-27 20 g (11 ms) Vibration resistance DIN EN 60068-2-27 20 g (11 ms) MITTF [years] 778 Mechanical data Weight (g) 2221.05 Materials brass chemically nickel-plated; PP; stainless steel (1.4404 / 316L); aluminum anodized; PA stainless steel (1.4401 / 316); brass; brass; chemically nickel-plated; PP; PPS; spacer: POM; O-ring: FKM Process connection Rp 1 1/2 Switching cycles mechanical Recommendation Use 200 micron filtrat	Short-circuit protection						
Measuring range [I/min] 8200 Accuracy / deviations Repeatability Repeatability 1 % of the final value ± 5 Reaction times Response time [\$] < 0.01	Overload protection						
Accuracy / deviations Repeatability 1 Measuring error [% of the final value] ± 5 Reaction times Image: Response time [s]	Measuring/setting range						
Repeatability 1	Measuring range	[l/min]	8200				
Measuring error	Accuracy / deviations						
Measuring error % of the final value	Repeatability						
Reaction times S	[% of the fina	ıl value]	1				
Reaction times [s]	=		+ 5				
Response time [s]	[% of the fina	[% of the final value]					
Operating conditions Ambient temperature [°C] 060 Storage temperature [°C] -1580 Protection IP 65; IP 67 Tests / approvals EMC DIN EN 61000-6-2 DIN EN 61000-6-3 Shock resistance DIN EN 60068-2-27 20 g (11 ms) Vibration resistance DIN EN 60068-2-6 5 g (102000 Hz) MTTF [years] Mechanical data Weight [g] 2221.05 Material brass chemically nickel-plated; PP; stainless steel (1.4404 / 316L); aluminum anodized; PA Materials (wetted parts) stainless steel (1.4401 / 316); brass; brass chemically nickel-plated; PP; PPS; spacer: POM; O-ring: FKM Process connection Rp 1 1/2 Switching cycles mechanical 10 million Remarks Recommendation Use 200 micron filtration All data refer to water (20 °C). Notes Please note the changed housing design!	Reaction times						
Ambient temperature [°C] 060 Storage temperature [°C] -1580 Protection IP 65; IP 67 Tests / approvals EMC DIN EN 61000-6-2 DIN EN 61000-6-3 Shock resistance DIN EN 60068-2-27 20 g (11 ms) Vibration resistance DIN EN 60068-2-6 5 g (102000 Hz) MTTF [years] 778 Mechanical data Weight [g] 2221.05 Material brass chemically nickel-plated; PP; stainless steel (1.4404 / 316L); aluminum anodized; PA Materials (wetted parts) stainless steel (1.4401 / 316); brass; brass chemically nickel-plated; PP; PPS; spacer: POM; O-ring: FKM Process connection Rp 1 1/2 Switching cycles mechanical 10 million Remarks Remarks Recommendation Use 200 micron filtration All data refer to water (20 °C). Notes Please note the changed housing design!	Response time	[s]	<(0.01			
Storage temperature [°C] -1580 Protection IP 65; IP 67 Tests / approvals EMC	Operating conditions						
Protection	Ambient temperature	[°C]	060				
EMC DIN EN 61000-6-2 DIN EN 61000-6-3 Shock resistance DIN EN 60068-2-27 20 g (11 ms) Vibration resistance DIN EN 60068-2-6 5 g (102000 Hz) MTTF [years] 778 Mechanical data Weight [g] 2221.05 Material brass chemically nickel-plated; PP; stainless steel (1.4404 / 316L); aluminum anodized; PA Materials (wetted parts) stainless steel (1.4401 / 316); brass; brass chemically nickel-plated; PP; PPS; spacer: POM; O-ring: FKM Process connection Rp 1 1/2 Switching cycles mechanical 10 million Remarks Remarks Remarks Recommendation Use 200 micron filtration All data refer to water (20 °C). Notes Please note the changed housing design!	Storage temperature	[°C]	-1580				
DIN EN 61000-6-2	Protection		IP 65; IP 67				
Shock resistance DIN EN 61000-6-3 Shock resistance DIN EN 60068-2-27 DIN EN 60068-2-6 5 g (102000 Hz) MTTF [years] Mechanical data Weight [g] Material Materials (wetted parts) Stainless steel (1.4404 / 316L); aluminum anodized; PA Materials (wetted parts) Stainless steel (1.4401 / 316); brass; brass chemically nickel-plated; PP; PPS; spacer: POM; O-ring: FKM Process connection Rp 1 1/2 Switching cycles mechanical Remarks Remarks Recommendation Use 200 micron filtration All data refer to water (20 °C). Notes Please note the changed housing design!	Tests / approvals						
Shock resistance DIN EN 60068-2-27 Vibration resistance DIN EN 60068-2-6 5 g (102000 Hz) MTTF [years] Mechanical data Weight [g] Material Materials (wetted parts) Materials (wetted parts) Process connection Remarks Remarks Recommendation Use 200 micron filtration All data refer to water (20 °C). Notes DIN EN 60068-2-27 20 g (11 ms) 5 g (102000 Hz) 778 2221.05 brass chemically nickel-plated; PP; stainless steel (1.4404 / 316L); aluminum anodized; PA stainless steel (1.4401 / 316); brass; brass chemically nickel-plated; PP; PPS; spacer: POM; O-ring: FKM Reparks Recommendation Use 200 micron filtration All data refer to water (20 °C). Please note the changed housing design!	EMC						
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Weight[g]2221.05Materialbrass chemically nickel-plated; PP; stainless steel (1.4404 / 316L); aluminum anodized; PAMaterials (wetted parts)stainless steel (1.4401 / 316); brass; brass chemically nickel-plated; PP; PPS; spacer: POM; O-ring: FKMProcess connectionRp 1 1/2Switching cycles mechanical10 millionRemarksRemarksRecommendation Use 200 micron filtration All data refer to water (20 °C).NotesPlease note the changed housing design!							
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nickel-plated; PP; PPS; spacer: POM; O-ring: FKM Process connection Rp 1 1/2 Switching cycles mechanical 10 million Remarks Remarks Recommendation Use 200 micron filtration All data refer to water (20 °C). Notes Please note the changed housing design!							
Switching cycles mechanical Remarks Remarks Recommendation Use 200 micron filtration All data refer to water (20 °C). Notes Please note the changed housing design!	, ,						
Remarks Recommendation Use 200 micron filtration All data refer to water (20 °C). Notes Please note the changed housing design!	Process connection		Rp 1 1/2				
Remarks Recommendation Use 200 micron filtration All data refer to water (20 °C). Notes Please note the changed housing design!	Switching cycles mechanical		10 million				
All data refer to water (20 °C). Notes Please note the changed housing design!	Remarks						
Notes Please note the changed housing design!	Remarks						
Pack quantity 1 pcs.							
	Pack quantity		1 pcs.				

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SBY32HF010KG/US

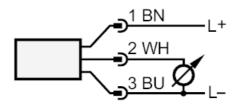


Electrical connection

Connector: 1 x M12; coding: A



Connection



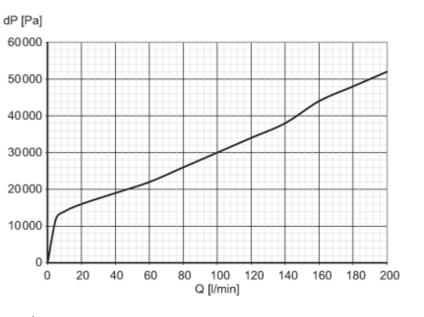
Colors to DIN EN 60947-5-2

Core colors :

BN = brown BU = blue WH = white

Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity