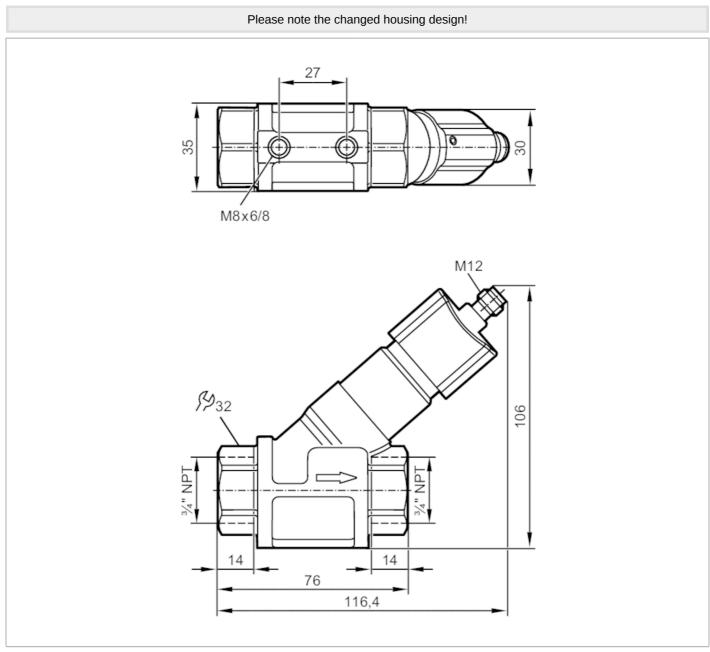
SBN432

Flow transmitter with integrated backflow prevention



SBN34HF010KG/US



Product characteristics					
Measuring range	[gpm]	0.24			
Process connection		3/4" NPT			
Application					
Media		Liquids; water; glycol solutions; coolants			
Medium temperature	[°F]	14212			
Pressure rating	[bar]	40			
Pressure rating	[MPa]	4			
Electrical data					
Operating voltage	[V]	1832 DC; (to SELV/PELV)			

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Protection class III Reverse polarity protection yes Outputs analogue signal Output signal analogue signal Analogue current output [mA] 420 Max. load [Q] Short-circuit protection yes Overload protection yes Measuring range [gm] Measuring error [g6 of the final value] [%6 of the final value] 1 Measuring error [g6 of the final value] [%6 of the final value] < 0.01 Operating conditions Archient temperature [°F] Storage temperature [°F] Protection IP 65; IP 67 Tests / approvals ID N EN 61000-6-2 <th>Current consumption</th> <th>[mA]</th> <th colspan="3">< 35</th>	Current consumption	[mA]	< 35			
Outputs analogue signal Output signal analogue signal Analogue current output [mA] 420 Max. load [Q] 500 Short-circuit protection yes Overload protection yes Measuring/setting range 0.24 Measuring/setting range 0.24 Accuracy / deviations Repeatability Repeatability 1 Measuring range (gh of the final value] % of the final value] 1 Measuring renor ± 5 (% of the final value] 1 Measuring renor ± 5 (% of the final value] 1 Measuring error ± 5 (% of the final value] 1 Measuring error ± 5 Response time [S] Cotract generature ["F] Storage temperature ["F] Storage temperature ["F] Protection [P 65; IP 67 EMC DIN EN 61000-6-2 DIN EN 61000-6-2 DIN EN 61000-6-3	Protection class					
Output signal analogue signal Analogue current output [mA] Analogue current output [mA] Max. load [Q] Short-circuit protection yes Overload protection yes Overload protection yes Measuring range [gpm] (% of the final value) 1 Measuring error ±5 [% of the final value] ±1 Measuring conditions <0.01	Reverse polarity protection		yes			
Analogue current output [mA] Max. load [Ω] Short-circuit protection yes Overload protection yes Measuring/setting range [gm] Measuring/setting range [gm] Measuring renr ±.5 [% of the final value] ±.5 Response times <0.01	Outputs					
Max. load [Q] 500 Short-circuit protection yes Measuring/setting range [gpm] Measuring range [gpm] Measuring range [gpm] Measuring range [gpm] Accuracy / deviations	Output signal		analogi	ue signal		
Short-circuit protection yes Overload protection yes Measuring range (gm) Measuring range (gm) Measuring range (gm) Accuracy / deviations 1 Repeatability ±5 Response time (% of the final value) Measuring error (% of the final value) Response time (s) Response time (s) Response time (s) Ambient temperature ("F) Storage temperature ("F) Vibration resistance DIN EN 61000-6-2 DIN EN 61000-6-3 DIN EN 61000-6-2 DIN EN 60068-2-27 20 g (11 ms) Vibration resistance DIN EN 60668-2-6 5 g (102000 Hz) MTF (yeas) Process connection	Analogue current output	[mA]				
Overload protection yes Measuring/setting range [gpm] Measuring range [gpm] Accuracy / deviations Respectability [% of the final value] Measuring error ±5 [% of the final value] ±5 Response times < 0.01	Max. load	[Ω]	500			
Measuring/setting range Image: [gpm] 0.24 Accuracy / deviations 1 Repeatability 1 [% of the final value] ± 5 Response times (% of the final value] Response time [\$] Response time [\$] Operating conditions < 0.01	Short-circuit protection		yes			
Measuring range (gpm) 0.24 Accuracy / deviations I Repeatability [% of the final value] 1 Measuring error [% of the final value] ± 5 Response times [S] < 0.01 Operating conditions 20.01 Ambient temperature [°F] 32140 Storage temperature [°F] 32176 Procestresistance	Overload protection		yes			
Accuracy / deviations Repeatability 1 Measuring error ± 5 [% of the final value] ± 5 Response times < 0.01	Measuring/setting range					
Repeatability 1 Measuring error ±5 Response times < 0.01	Measuring range	[gpm]	0.24			
Image:	Accuracy / deviations					
[% of the final value] ± 5 Measuring error [% of the final value] ± 5 Response time [s] < 0.01	Repeatability					
Image: Product of the final value Image: Product of the final value Response times Image: Product of the final value Image: Product of the final value Response time [s] < 0.01 Operating conditions Image: Product of the final value Image: Product of the final value Operating conditions Image: Product of the final value Image: Product of the final value Image: Product of the final value Operating conditions Image: Product of the final value Image: Product of the final value Image: Product of the final value Operating conditions Image: Product of the final value Storage temperature ["F] Image: Product of the final value Image: Product of the final value Image: Product of the final value Storage temperature Image: Product of the final value Tests / approvals Image: Product of the final value Shock resistance Image: Product of the final val	[% of the fi	nal value]	1			
Pesponse times Response time [s] < 0.01	-		+ 5			
Response time [s] < 0.01 Operating conditions Ambient temperature [°F] 32140 Storage temperature [°F] 5176 Protection IP 65; IP 67 Tests / approvals EMC DIN EN 61000-6-2 DIN EN 61000-6-3 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 Uses chemically nickel-plated; PP; stainless steel (316/1.4404); aluminium anodised; PA Materials brass chemically nickel-plated; PP; stainless steel (316/1.4404); aluminium anodised; PA Materials (wetted parts) stainless steel (316 / 1.4401); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKM Process connection 3/4" NPT Switching cycles mechanical 10 million Remarks Recommendation Use 200 micron filtration All data refer to water (68 °F). All data refer to water (68 °F). Notes Please note the changed housing design!	[% of the fi	nal value]				
Operating conditions Ambient temperature [°F] 32140 Storage temperature [°F] 5176 Protection IP 65; IP 67 Tests / approvals IP 65; IP 67 EMC DIN EN 61000-6-2 DIN EN 61000-6-3 Image: Strange temperature 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 Veight [g] Weight [g] 480.05 Materials (wetted parts) stainless steel (316 / 1.4401); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKM Process connection 3/4" NPT Switching cycles mechanical 10 million Remarks Recommendation Use 200 micron filtration All data refer to water (68 °F). All data refer to water (68 °F). Notes Please note the changed housing design!						
Ambient temperature [°F] 32140 Storage temperature [°F] 5176 Protection IP 65; IP 67 Tests / approvals EMC DIN EN 61000-6-2 DIN EN 61000-6-3 Image 1000000000000000000000000000000000000	Response time	[s]	< 0.01			
Storage temperature [°F] 5176 Protection IP 65; IP 67 Tests / approvals DIN EN 61000-6-2 DIN EN 61000-6-3 EMC DIN EN 61000-6-3 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 Veight [g] 480.05 Materials brass chemically nickel-plated; PP; stainless steel (316L/1.4404); aluminium anodised; PA Materials stainless steel (316 / 1.4401); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKM Process connection 3/4" NPT Switching cycles mechanical 10 million Remarks Recommendation Use 200 micron filtration All data refer to water (68 °F). All data refer to water (68 °F). Notes Please note the changed housing design!	Operating conditions					
Protection IP 65; IP 67 Tests / approvals EMC DIN EN 61000-6-2 DIN EN 61000-6-3 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 Viention (g) 480.05 Materials brass chemically nickel-plated; PP; stainless steel (316L/1.4404); aluminium anodised; PA Materials stainless steel (316 / 1.4401); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKM Process connection 3/4" NPT Switching cycles mechanical 10 million Remarks Recommendation Use 200 micron filtration All data refer to water (68 °F). All data refer to water (68 °F). Notes Please note the changed housing design!	Ambient temperature	[°F]	32140			
Tests / approvals EMC DIN EN 61000-6-2 DIN EN 61000-6-3 Shock resistance DIN EN 60068-2-27 Vibration resistance DIN EN 60068-2-6 Shock resistance DIN EN 60068-2-6 MTTF [years] Mechanical data Weight [g] Materials brass chemically nickel-plated; PP; stainless steel (316L/1.4404); aluminium anodised; PA Materials brass chemically nickel-plated; PP; stainless steel (316L/1.4404); aluminium anodised; PA Materials brass chemically nickel-plated; PP; stainless steel (316L/1.4404); aluminium anodised; PA Materials (wetted parts) stainless steel (316 / 1.4401); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKM Process connection 3/4" NPT Switching cycles mechanical 10 million Remarks Recommendation Use 200 micron filtration All data refer to water (68 °F). All data refer to water (68 °F). Notes Please note the changed housing design!	Storage temperature	[°F]	5176			
EMCDIN EN 61000-6-2DIN EN 61000-6-3DIN EN 60068-2-27Shock resistanceDIN EN 60068-2-27Vibration resistanceDIN EN 60068-2-65 g (102000 Hz)MTTF[years] Mechanical data Weight[g]Materialsbrass chemically nickel-plated; PP; stainless steel (316L/1.4404); aluminium anodised; PAMaterials (wetted parts)stainless steel (316 / 1.4401); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKMProcess connection3/4" NPTSwitching cycles mechanicalColspan="2">RemarksRemarksRecommendation Use 200 micron filtration All data refer to water (68 °F).NotesPlease note the changed housing design!	Protection		IP 65; IP 67			
DIN EN 61000-6-320 g (11 ms)Shock resistanceDIN EN 60068-2-2720 g (11 ms)Vibration resistanceDIN EN 60068-2-65 g (102000 Hz)MTTF[years]778Mechanical dataWeight[g]480.05Materialsbrass chemically nickel-plated; PP; stainless steel (316L/1.4404); aluminium anodised; PAMaterials (wetted parts)stainless steel (316 / 1.4401); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKMProcess connection3/4" NPTSwitching cycles mechanical10 millionRemarksRemarksRecommendation Use 200 micron filtration All data refer to water (68 °F).NotesPlease note the changed housing design!	Tests / approvals					
Shock resistanceDIN EN 60068-2-2720 g (11 ms)Vibration resistanceDIN EN 60068-2-65 g (102000 Hz)MTTF[years]778Mechanical dataWeight[g]480.05Materialsbrass chemically nickel-plated; PP; stainless steel (316L/1.4404); aluminium anodised; PAMaterials (wetted parts)stainless steel (316 / 1.4401); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKMProcess connection3/4" NPTSwitching cycles mechanical10 millionRemarksRecommendation Use 200 micron filtration All data refer to water (68 °F).NotesPlease note the changed housing design!	EMC					
Vibration resistanceDIN EN 60068-2-65 g (102000 Hz)MTTF[years]778Mechanical dataWeight[g]480.05Materialsbrass chemically nickel-plated; PP; stainless steel (316L/1.4404); aluminium anodised; PAMaterials (wetted parts)stainless steel (316 / 1.4401); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKMProcess connection3/4" NPTSwitching cycles mechanical10 millionRemarksRecommendation Use 200 micron filtration All data refer to water (68 °F).NotesPlease note the changed housing design!						
MTTF[years]778Mechanical dataWeight[g]480.05Materialsbrass chemically nickel-plated; PP; stainless steel (316L/1.4404); aluminium anodised; PAMaterials (wetted parts)stainless steel (316 / 1.4401); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKMProcess connection3/4" NPTSwitching cycles mechanical10 millionRemarksRecommendation Use 200 micron filtrationNotesPlease note the changed housing design!						
Mechanical dataWeight[g]Materialsbrass chemically nickel-plated; PP; stainless steel (316L/1.4404); aluminium anodised; PAMaterials (wetted parts)stainless steel (316 / 1.4401); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKMProcess connection3/4" NPTSwitching cycles mechanical10 millionRemarksRemarksRecommendation Use 200 micron filtrationAll data refer to water (68 °F).NotesPlease note the changed housing design!		[vears]				
Weight[g]480.05Materialsbrass chemically nickel-plated; PP; stainless steel (316L/1.4404); aluminium anodised; PAMaterials (wetted parts)stainless steel (316 / 1.4401); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKMProcess connection3/4" NPTSwitching cycles mechanical10 millionRemarksRemarksRecommendation Use 200 micron filtration All data refer to water (68 °F).NotesPlease note the changed housing design!		[Jeal9]				
Materialsbrass chemically nickel-plated; PP; stainless steel (316L/1.4404); aluminium anodised; PAMaterials (wetted parts)stainless steel (316 / 1.4401); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKMProcess connection3/4" NPTSwitching cycles mechanical10 millionRemarksRemarksRecommendation Use 200 micron filtration All data refer to water (68 °F).NotesPlease note the changed housing design!		[0]	19/	2.05		
Materials (wetted parts)stainless steel (316 / 1.4401); brass; brass chemically nickel-plated; PP; PPS; O-ring: FKMProcess connection3/4" NPTSwitching cycles mechanical10 millionRemarksRemarksRecommendation Use 200 micron filtration All data refer to water (68 °F).NotesPlease note the changed housing design!	-	[9]				
Process connection 3/4" NPT Switching cycles mechanical 10 million Remarks Recommendation Use 200 micron filtration All data refer to water (68 °F). All data refer to water (68 °F). Notes Please note the changed housing design!						
Switching cycles mechanical 10 million Remarks Recommendation Use 200 micron filtration All data refer to water (68 °F). All data refer to water (68 °F). Notes Please note the changed housing design!						
Remarks Recommendation Use 200 micron filtration All data refer to water (68 °F). Notes Please note the changed housing design!						
Remarks Recommendation Use 200 micron filtration All data refer to water (68 °F). Notes Please note the changed housing design!						
All data refer to water (68 °F). Notes Please note the changed housing design!						
Notes Please note the changed housing design!						
Pack quantity 1 pcc	Notes					
	Pack quantity		1 pcs.			

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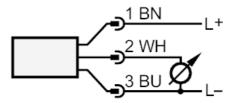




Connector: 1 x M12; coding: A

$$3^{2}$$

Connection



colours to DIN EN 60947-5-2 Core colours : brown blue white

Diagrams and graphs

Pressure loss

BN =

BU =

WH =

