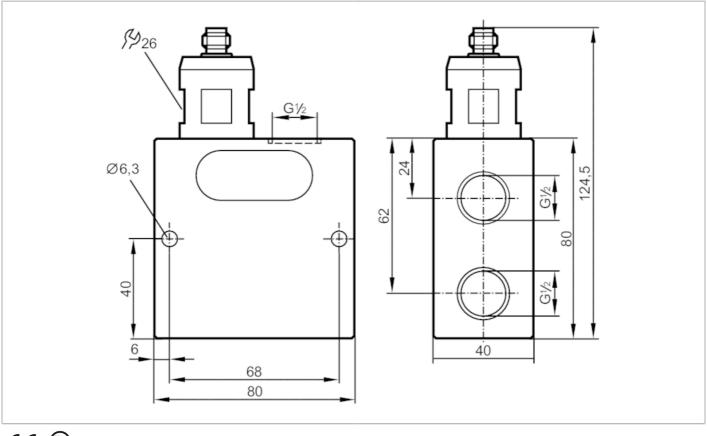
SBU623

Flow transmitter with integrated backflow prevention

SBU12DI040KG/US







Product characteristics					
Measuring range	[l/min]	0.325			
Process connection		G 1/2			
Application					
Application		machine tools; Internal cooling of drill			
Media		Liquids; water; glycol solutions; coolants			
Medium temperature	[°C]	060			
Pressure rating	[bar]	200			
Pressure rating	[MPa]	20			
Electrical data					
Operating voltage tolerance	[%]	-1510			
Operating voltage	[V]	24 DC; (to SELV/PELV)			
Current consumption	[mA]	10			
Protection class		III			
Reverse polarity protection		yes			
Outputs					
Output signal		analogue signal			
Analogue voltage output	[V]	0.510			
Min. load resistance	[Ω]	10000			
Short-circuit protection		yes			
Overload protection		yes			

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Flow transmitter with integrated backflow prevention



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Flow range [l/min 75 Accuracy / deviations Repeatability (% of the final value)	Measuring/setting range						
Accuracy / deviations Repeatability [% of the final value] 1 Measuring error [% of the final value] ± 5 Response times Exponse times Response time [s] < 0.01 Operating conditions Ambient temperature [°C] 060 Storage temperature [°C] 1580 Protection DIN EN 61000-6-2 DIN EN 65; IP 67 Tests / approvals EMC DIN EN 61000-6-2 DIN EN 61000-6-2 DIN EN 61000-6-3 DIN EN 61000-6-3 DIN EN 60068-2-27 DIN EN 60068-2-27 DIN EN 60068-2-27 DIN EN 60068-2-27 DIN EN 60068-2-6 Sg (102000 Hz) Sequence (102000 Hz) MITTF [years] 3004 Mechanical data Weight [g] 740.5 Materials aluminium anodised; PA Materials (wetted parts) stainless steel (316 / 1.4401); brass; aluminium anodised; PU; O-ring: FKM Process connection G 1/2 Switching cycles mechanical sealing plugs Remarks Femarks For oils, the settings are influenced by temperature and viscosity. Recommendation Use 200 micron filtration All data refer to coolants (20 °C).	Measuring range	[l/min]	0.325				
Repeatability Reasuring error [% of the final value] Response time to the final value Response time time time time the specified standard settings for coolants. Recommendation Use 200 micron filtration All data refer to coolants (20 °C).	Flow range	[l/min]	75				
	Accuracy / deviations						
Measuring error	Repeatability			1			
Sesponse times S	[% of the fin	nal value]		1			
Response times S	Measuring error		+ 5				
Response time [s] < 0.01 Operating conditions Ambient temperature [°C] 060 Storage temperature [°C] -1580 Protection DIN EN 61000-6-2 DIN EN 61000-6-3 -10	[% of the fin	nal value]					
Operating conditions Ambient temperature [°C]	Response 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 ————————————————————————————————————	Response time	[s]		< 0.01			
Storage temperature [°C] -1580 Protection IP 65; IP 67 Tests / approvals EMC DIN EN 61000-6-2 DIN EN 61000-6-3	Operating conditions						
Protection IP 65; IP 67 Tests / approvals EMC DIN EN 61000-6-2 DIN EN 61000-6-3 ————————————————————————————————————	Ambient temperature	[°C]	060				
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] 3004 Mechanical data Weight [g] 740.5 Materials (wetted parts) Stainless steel (316 / 1.4401); brass; aluminium anodised; PA Materials (wetted parts) G 1/2 Switching cycles mechanical 10 million Accessories Items supplied sealing plugs Remarks Remarks Temperature changes slightly affect the specified standard settings for coolants. For oils, the settings are influenced by temperature and viscosity. Recommendation Use 200 micron filtration All data refer to coolants (20 °C).	Storage temperature	[°C]	-1580				
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] 3004 Mechanical data Weight [g] 740.5 Materials (wetted parts) Stainless steel (316 / 1.4401); brass; aluminium anodised; PU; O-ring: FKM Process connection G 1/2 Switching cycles mechanical 10 million Accessories Items supplied Sealing plugs Remarks Remarks Temperature changes slightly affect the specified standard settings for coolants. For oils, the settings are influenced by temperature and viscosity. Recommendation Use 200 micron filtration All data refer to coolants (20 °C).	Protection		IP 65; IP 67				
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] 3004 Mechanical data Weight [g] 740.5 Materials aluminium anodised; PA Materials (wetted parts) stainless steel (316 / 1.4401); brass; aluminium anodised; PU; O-ring: FKM Process connection G 1/2 Switching cycles mechanical 10 million Accessories Items supplied sealing plugs Remarks Temperature changes slightly affect the specified standard settings for coolants. For oils, the settings are influenced by temperature and viscosity. Recommendation Use 200 micron filtration All data refer to coolants (20 °C).	Tests / approvals						
Shock resistance Vibration resistance Vibration resistance MTTF [years] Mechanical data Weight [g] Materials Materials (wetted parts) Process connection Switching cycles mechanical Accessories Items supplied Remarks Remarks Temperature changes slightly affect the specified standard settings for coolants. For oils, the settings are influenced by temperature and viscosity. Recommendation Use 200 micron filtration All data refer to coolants (20 °C).			DIN EN 61000-6-2				
Vibration resistance MTTF [years] Mechanical data Weight [g] Materials Materials (wetted parts) Process connection Process connection Stainless steel (316 / 1.4401); brass; aluminium anodised; PU; O-ring: FKM Accessories Items supplied Remarks Remarks Temperature changes slightly affect the specified standard settings for coolants. For oils, the settings are influenced by temperature and viscosity. Recommendation Use 200 micron filtration All data refer to coolants (20 °C).			DIN EN 61000-6-3				
MTTF [years] 3004 Mechanical data Weight [g] 740.5 Materials aluminium anodised; PA Materials (wetted parts) stainless steel (316 / 1.4401); brass; aluminium anodised; PU; O-ring: FKM Process connection G 1/2 Switching cycles mechanical 10 million Accessories Items supplied sealing plugs Remarks Remarks Remarks Temperature changes slightly affect the specified standard settings for coolants. For oils, the settings are influenced by temperature and viscosity. Recommendation Use 200 micron filtration All data refer to coolants (20 °C).	Shock resistance		DIN EN 60068-2-27				
Mechanical data Weight [g] 740.5 Materials aluminium anodised; PA Materials (wetted parts) stainless steel (316 / 1.4401); brass; aluminium anodised; PU; O-ring: FKM Process connection G 1/2 Switching cycles mechanical 10 million Accessories Items supplied sealing plugs Remarks Remarks Temperature changes slightly affect the specified standard settings for coolants. For oils, the settings are influenced by temperature and viscosity. Recommendation Use 200 micron filtration All data refer to coolants (20 °C).			DIN EN 60068-2-6		Hz)		
Weight[g]740.5MaterialsAluminium anodised; PAMaterials (wetted parts)Stainless steel (316 / 1.4401); brass; aluminium anodised; PU; O-ring: FKMProcess connectionG 1/2Switching cycles mechanical10 millionAccessoriesItems suppliedsealing plugsRemarksRemarksTemperature changes slightly affect the specified standard settings for coolants.For oils, the settings are influenced by temperature and viscosity.Recommendation Use 200 micron filtrationAll data refer to coolants (20 °C).	MTTF	[years]	3004				
Materials (wetted parts) stainless steel (316 / 1.4401); brass; aluminium anodised; PU; O-ring: FKM Process connection G 1/2 Switching cycles mechanical 10 million Accessories Items supplied sealing plugs Remarks Remarks Temperature changes slightly affect the specified standard settings for coolants. For oils, the settings are influenced by temperature and viscosity. Recommendation Use 200 micron filtration All data refer to coolants (20 °C).	Mechanical data						
Materials (wetted parts) Process connection Switching cycles mechanical Accessories Items supplied Remarks Remarks Temperature changes slightly affect the specified standard settings for coolants. For oils, the settings are influenced by temperature and viscosity. Recommendation Use 200 micron filtration All data refer to coolants (20 °C).	Weight	[g]	740.5				
Process connection Switching cycles mechanical Accessories Items supplied Remarks Remarks Temperature changes slightly affect the specified standard settings for coolants. For oils, the settings are influenced by temperature and viscosity. Recommendation Use 200 micron filtration All data refer to coolants (20 °C).	Materials		aluminium anodised; PA				
Switching cycles mechanical Accessories Items supplied Remarks Remarks Temperature changes slightly affect the specified standard settings for coolants. For oils, the settings are influenced by temperature and viscosity. Recommendation Use 200 micron filtration All data refer to coolants (20 °C).	Materials (wetted parts)		stainless steel (316 / 1.4401); brass; aluminium anodised; PU; O-ring: FKM				
Accessories Items supplied sealing plugs Remarks Remarks Temperature changes slightly affect the specified standard settings for coolants. For oils, the settings are influenced by temperature and viscosity. Recommendation Use 200 micron filtration All data refer to coolants (20 °C).	Process connection		G 1/2				
Remarks Remarks Temperature changes slightly affect the specified standard settings for coolants. For oils, the settings are influenced by temperature and viscosity. Recommendation Use 200 micron filtration All data refer to coolants (20 °C).	Switching cycles mechanica	al	10 million				
Remarks Temperature changes slightly affect the specified standard settings for coolants. For oils, the settings are influenced by temperature and viscosity. Recommendation Use 200 micron filtration All data refer to coolants (20 °C).	Accessories						
Remarks Temperature changes slightly affect the specified standard settings for coolants. For oils, the settings are influenced by temperature and viscosity. Recommendation Use 200 micron filtration All data refer to coolants (20 °C).	Items supplied		sealing plugs				
For oils, the settings are influenced by temperature and viscosity. Recommendation Use 200 micron filtration All data refer to coolants (20 °C).	Remarks						
Recommendation Use 200 micron filtration All data refer to coolants (20 °C).	Remarks		Temperature changes slightly affect the specified standard settings for coolants.				
All data refer to coolants (20 °C).							
Pack quantity 1 pcs.	Book and the						
Electrical connection	<u> </u>			1 pcs.			



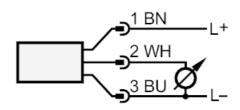
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SBU12DI040KG/US

Connection



colours to DIN EN 60947-5-2

Core colours :

BN = brown BU = blue WH = white

Diagrams and graphs

