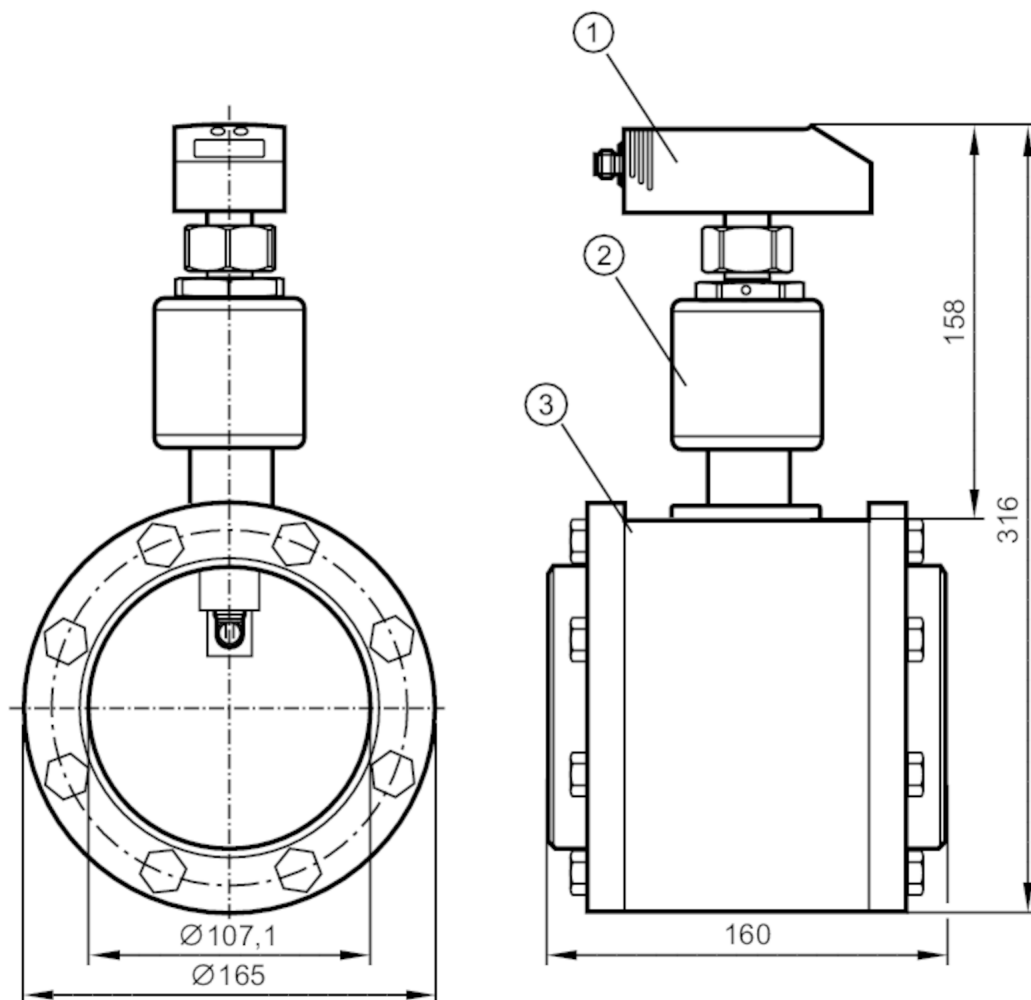


SDG102

Compressed air meter

SDG4"/METRIS PB DN100 LM



- 1 Flow sensor
- 2 quick-change fitting
- 3 pipe section



Application

Application	totaliser function
Media	compressed air
	air quality ISO 8573-1
Medien	class 141
	class 344
Medium temperature [°C]	0...60
Pressure rating [bar]	16

Electrical data

Operating voltage [V]	19...30 DC
Current consumption [mA]	< 100
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	0.5



Compressed air meter

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Inputs / outputs		
Number of inputs and outputs	Number of digital outputs: 2; Number of analogue outputs: 1	
Outputs		
Total number of outputs	2	
Output signal	switching signal; analogue signal; pulse signal; (configurable)	
Electrical design	PNP	
Number of digital outputs	2	
Output function	normally open / normally closed; (parameterisable)	
Max. voltage drop switching output DC [V]	2	
Permanent current rating of switching output DC [mA]	250; (per output)	
Number of analogue outputs	1	
Analogue current output [mA]	4...20; (scalable)	
Max. load [Ω]	500	
Pulse output	consumed quantity meter	
Short-circuit protection	yes	
Type of short-circuit protection	pulsed	
Overload protection	yes	
Measuring/setting range		
Measuring range [m³/h]	15...4400	
Display range [m³/h]	0...5320	
volumetric flow quantity monitoring		
Pulse value	10 Nm³	
Pulse length [s]	0,1	
Accuracy / deviations		
Flow monitoring		
Accuracy (in the measuring range)	± (3 % MW + 0,3 % MEW) / ± (6 % MW + 0,6 % MEW); (class 141 / ; class 344)	
Response times		
Flow monitoring		
Response time [s]	0	
Operating conditions		
Ambient temperature [°C]	0...60	
Storage temperature [°C]	-20...85	
Max. relative air humidity [%]	90	
Protection	IP 65	
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
Vibration resistance	DIN IEC 68-2-6	5 g (55...2000 Hz)
MTTF [years]	214	



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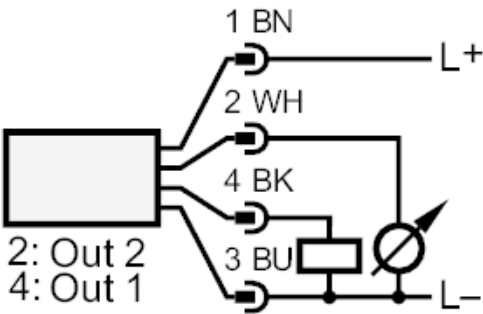
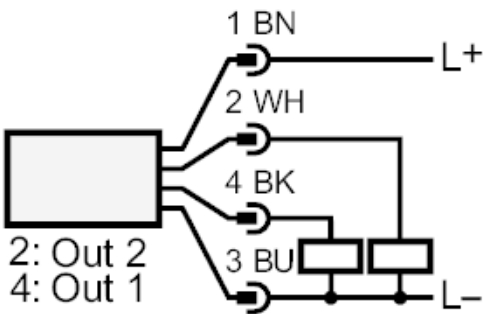
Mechanical data		
Weight	[g]	14890
Materials	PBT-GF20; PC; PC; stainless steel (1.4301 / 304); FKM; pipe section: steel galvanised	
Materials (wetted parts)	stainless steel (1.4401 / 316); stainless steel (1.4301 / 304); ceramics glass passivated; PEEK; polyester; FKM; aluminium anodised; steel galvanised	
Process connection	flange DN100	
Remarks		
Remarks	MW = measured value	
	MEW = Final value of the measuring range	
	Measuring, display and setting ranges refer to the standard volume flow according to DIN ISO 2533.	
	For information about installation and operation please see the operating instructions.	
Pack quantity	1 pcs.	

Electrical connection

Connector: 1 x M12



Connection



OUT1:	switching output
	Pulse output quantity meter
OUT2:	switching output
	Pulse output quantity meter
	analogue output