

SDG157



Compressed air meter

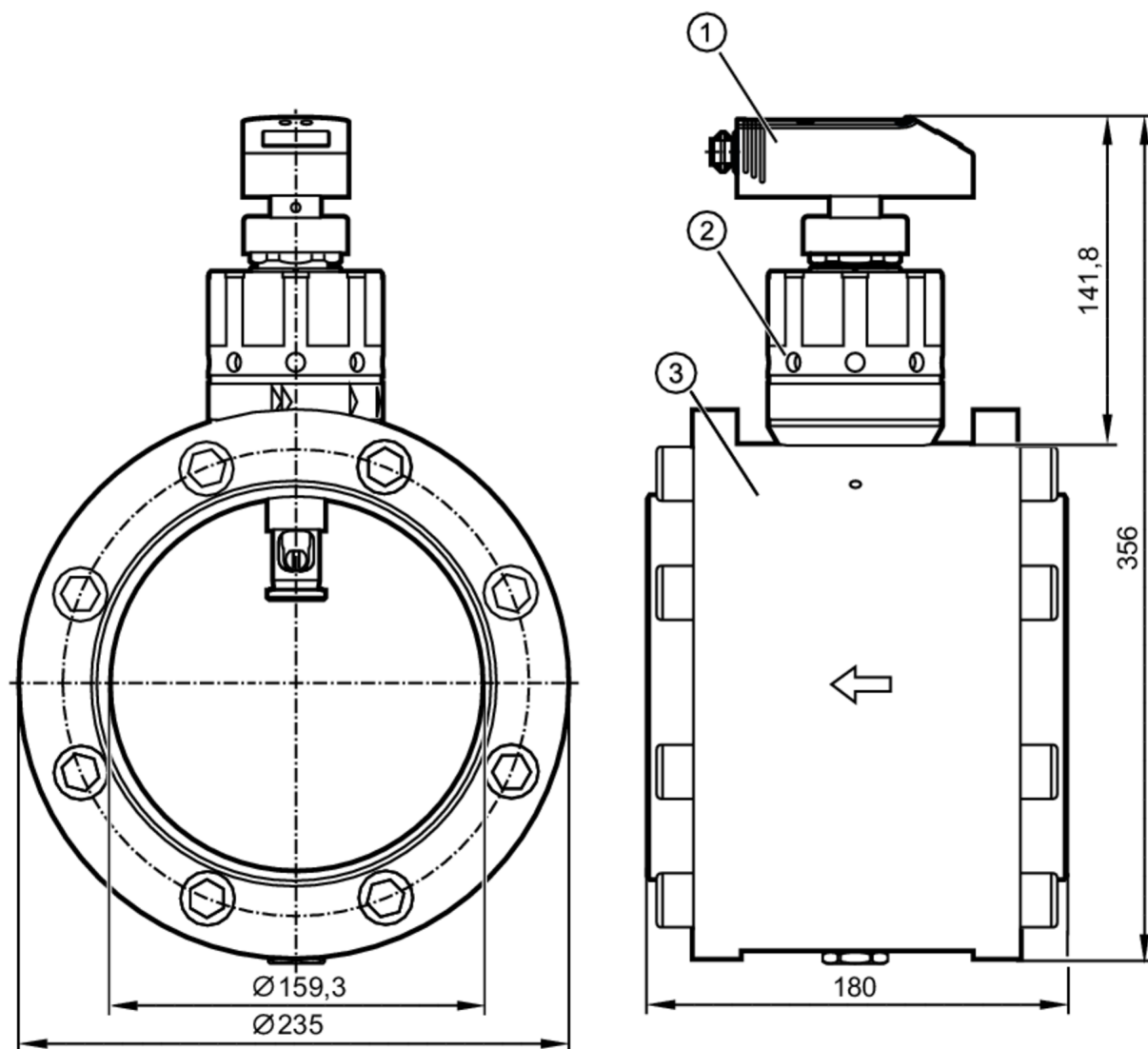
SDG6"/METRIS PB DN150 SS LM

phase-out article

Alternative articles: SDG750

When selecting an alternative article and accessories please note that technical data may differ!

please note that sensors with a production date before 2010 have a modified pitch circle



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2; Number of analogue outputs: 1
Measuring range [m ³ /h]	33...10000
Process connection	flange DN150 according to: DIN EN 10220

Application

Application	totaliser function
Media	compressed air



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Note on media		air quality ISO 8573-1	
		class 141	
		class 344	
Medium temperature	[°C]	0...60	
Pressure rating	[bar]	16	
Pressure rating	[MPa]	1.6	
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	
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]	33...10000	
Display range	[m³/h]	0...12000	
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)	



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Response times		
Flow monitoring		
Response time	[s]	0.1; (dAP = 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
Mechanical data		
Weight	[g]	30887
Materials	PBT-GF20; PC; PC; stainless steel (304/1.4301); FKM; pipe section: stainless steel (304/1.4301)	
Materials (wetted parts)	stainless steel (316 / 1.4401); stainless steel (304/1.4301); ceramics glass passivated; PEEK; polyester; FKM; aluminium anodised; stainless steel (304/1.4301)	
Process connection	flange DN150 according to:DIN EN 10220	
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; coding: A		
		

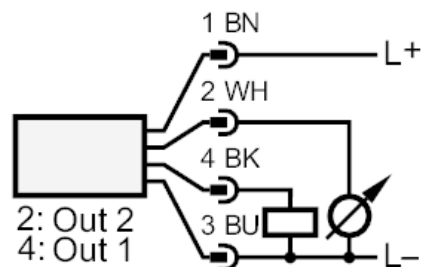
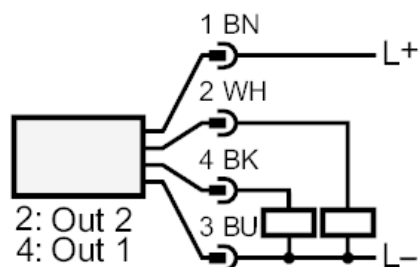




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Connection



OUT1:	switching output Pulse output quantity meter
OUT2:	switching output input counter reset analogue output