





Flow sensors SL55070x series





Sensor flow, air, calorimetric, 12-24V DC, cable tail 2m PVC, plastic PC, with LCD display, parameterization, IP40, integrated pressure sensor





LCD-Display integrierter_Drucksensor

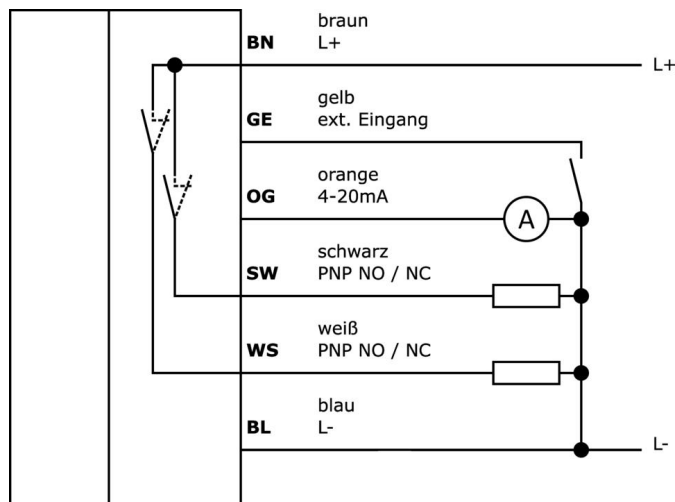
The function of the flow sensor is based on the calorimetric principle. The sensor is heated by a few degrees Celsius from the inside compared to the flow medium into which it protrudes. If the medium flows, the heat generated in the sensor is dissipated by the medium. The temperature generated in the sensor is measured and compared with the temperature of the medium, which is also measured. The flow state for each medium can be derived from the temperature difference obtained.

Article No.	SL550700	SL550701	SL550702	SL550703
				
Operating voltage (DC)	12 - 24V			
Measuring range pressure	-0,9 - 8bar			
Measuring range flow volume	0 - 0,5l/min	0 - 1l/min	0 - 5l/min	0 - 10l/min
Reference medium / object	Air			
Measurement principle	calorimetric			
ardTEME_Stroemungsrichtung	Unidirektional			
Pressure resistance	10bar			
Setting procedure	Parameterization			
Type of process connection	Hose OD 6mm			
ardSOCA_Abmessungen	83x17x50mm			
ardSOCA_ElektrischerAnschluss	Cable tail 2m			
Number of digital inputs	1			
Type of switching function	Programmable/configurable			
Number of switching outputs	2			
Type of switching output	PNP			
Number of analog output channels	1			
Type of analog output	4 - 20mA			
Short-circuit protection	Yes			
Reverse polarity protection	Yes			
ardTEEL_GarantierterMessbereich	0 - 100% vom Messbereich			
ardTEEL_WiederholgenauigkeitB	±0,2% vom Messbereich			
ardTEEL_GenauigkeitDerAnzeige	±2% vom Messbereich			
ardTEEL_GenauigkeitAnalogausg	±2,5% vom Messbereich			
ardTEEL_GarantierterMessbereich	2 - 100% vom Messbereich			
ardTEEL_WiederholgenauigkeitB	±1% vom Messbereich (±2% bei Reaktionszeit von 50ms)			
ardTEEL_GenauigkeitDerAnzeige	±3% vom Messbereich			
ardTEEL_GenauigkeitAnalogausg	±5% vom Messbereich			
ardTEEL_Linearitaet	±3% vom Messbereich			
Housing material	Plastic			
Sensing element material	Stainless steel			
Medium temperature	0 - 50°C			
Ambient temperature	0 - 50°C			
Storage temperature	-10 - 60°C			
Degree of protection (IP)	IP40			

Article No.	SL550704	SL550705	SL550706	SL550707
				
Operating voltage (DC)	12 - 24V			
Measuring range pressure	-0,9 - 8bar	-0,9 - 8bar	-0,9 - 8bar	0 - 10bar
Measuring range flow volume	0 - 50l/min	0 - 100l/min	0 - 200l/min	2 - 500l/min
Reference medium / object	Air			
Measurement principle	calorimetric			
ardTEME_Stroemungsrichtung	Unidirektional			
Pressure resistance	10bar	10bar	10bar	15bar
Setting procedure	Parameterization			
Type of process connection	Hose OD 6mm	Hose AD 8mm	Hose AD 8mm	G1/2 inch
ardSOCA_Abmessungen	83x17x50mm	92,2x17x50mm	92,2x17x50mm	80x30x61,65mm
ardSOCA_ElektrischerAnschluss	Cable tail 2m			
Number of digital inputs	1			
Type of switching function	Programmable/configurable			
Number of switching outputs	2			
Type of switching output	PNP			
Number of analog output channels	1			
Type of analog output	4 - 20mA			
Short-circuit protection	Yes			
Reverse polarity protection	Yes			
ardTEEL_GarantierterMessbereich	0 - 100% vom Messbereich			
ardTEEL_WiederholgenauigkeitB	±0,2% vom Messbereich			
ardTEEL_GenauigkeitDerAnzeige	±2% vom Messbereich			
ardTEEL_GenauigkeitAnalogausg	±2,5% vom Messbereich			
ardTEEL_GarantierterMessbereich	2 - 100% vom Messbereich			
ardTEEL_WiederholgenauigkeitB	±1% vom Messbereich (±2% bei Reaktionszeit von 50ms)			
ardTEEL_GenauigkeitDerAnzeige	±3% vom Messbereich			
ardTEEL_GenauigkeitAnalogausg	±5% vom Messbereich			
ardTEEL_Linearitaet	±3% vom Messbereich			
Housing material	Plastic			
Sensing element material	Stainless steel	Stainless steel	Stainless steel	Aluminum
Medium temperature	0 - 50°C			
Ambient temperature	0 - 50°C			
Storage temperature	-10 - 60°C			
Degree of protection (IP)	IP40			

Article No.	SL550708	SL550709
		
Operating voltage (DC)	12 - 24V	
Measuring range pressure	0 - 10bar	
Measuring range flow volume	5 - 1000l/min	10 - 2000l/min
Reference medium / object	Air	
Measurement principle	calorimetric	
ardTEME_Stroemungsrichtung	Unidirektional	
Pressure resistance	15bar	
Setting procedure	Parameterization	
Type of process connection	G1/2 inch	G3/4 inch
ardSOCA_Abmessungen	80x30x61,65mm	90x35x66,65mm
ardSOCA_ElektrischerAnschluss	Cable tail 2m	
Number of digital inputs	1	
Type of switching function	Programmable/configurable	
Number of switching outputs	2	
Type of switching output	PNP	
Number of analog output channels	1	
Type of analog output	4 - 20mA	
Short-circuit protection	Yes	
Reverse polarity protection	Yes	
ardTEEL_GarantierterMessbereich	0 - 100% vom Messbereich	
ardTEEL_WiederholgenauigkeitB	±0,2% vom Messbereich	
ardTEEL_GenauigkeitDerAnzeige	±2% vom Messbereich	
ardTEEL_GenauigkeitAnalogausg	±2,5% vom Messbereich	
ardTEEL_GarantierterMessbereich	2 - 100% vom Messbereich	
ardTEEL_WiederholgenauigkeitB	±1% vom Messbereich (±2% bei Reaktionszeit von 50ms)	
ardTEEL_GenauigkeitDerAnzeige	±3% vom Messbereich	
ardTEEL_GenauigkeitAnalogausg	±5% vom Messbereich	
ardTEEL_Linearitaet	±3% vom Messbereich	
Housing material	Plastic	
Sensing element material	Aluminum	
Medium temperature	0 - 50°C	
Ambient temperature	0 - 50°C	
Storage temperature	-10 - 60°C	
Degree of protection (IP)	IP40	

Connection



Extract accessories program

VK00382H



Cable connector, Straight, Suitable for self-assembly, Screw connection, Ø3-6.5mm, 2A, 30V, -25-85°C, M12 Male (connector) 8pin, IP67, PBT

VK00302H



Cable connector, straight, self-assembly, screw connection, Ø4-8mm, 2A, 30V, -30-80°C, M12 connector 8pin, IP67

AS000021



Accessories Holder, 40x33.6x5mm, stainless steel

AS000022



Accessories Mounting frame, 67x26mm, plastic, including front cover

AS000023



Accessories Holder, 50x32x5mm, stainless steel

AS000024



Accessories Holder, 58x42x5mm, stainless steel

You can find further accessories on our homepage

Installation



Mounting / installation may only be carried out by a qualified electrician!

Disposal



Safety warnings

/ Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

/ Never use these devices in applications where the safety of a person depends on their functionality.