Illustration similar

FLOW SENSOR

Electrical connection diagram

1	braun	•	15..30 V DC
2	weiß	•	n.c.
3	blau	•	0 V (GND)
4	schwarz	•	Signal 0..10 V

n.c. = not connected/
nicht angeschlossen
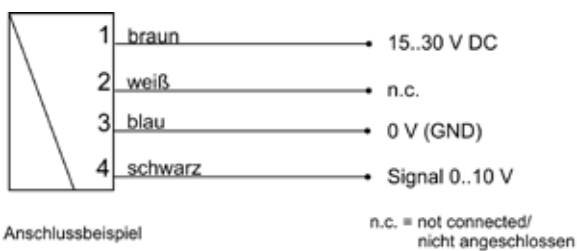
Anschlussbeispiel

2 •   • 1
3 •   • 4

PNP NPN connection/
PNP NPN Anschluss

Special Features

• To be used for break-monitoring of internally cooled tools
• Suitable for different flowrate measuring ranges
• Degree of protection IP65
• Compact design
• Simple installation

The flow sensor FLS-150-100 suits rough industrial conditions and is employed in combination with all ARTIS tool and process monitoring systems.

Flow sensor
FLS-150-100
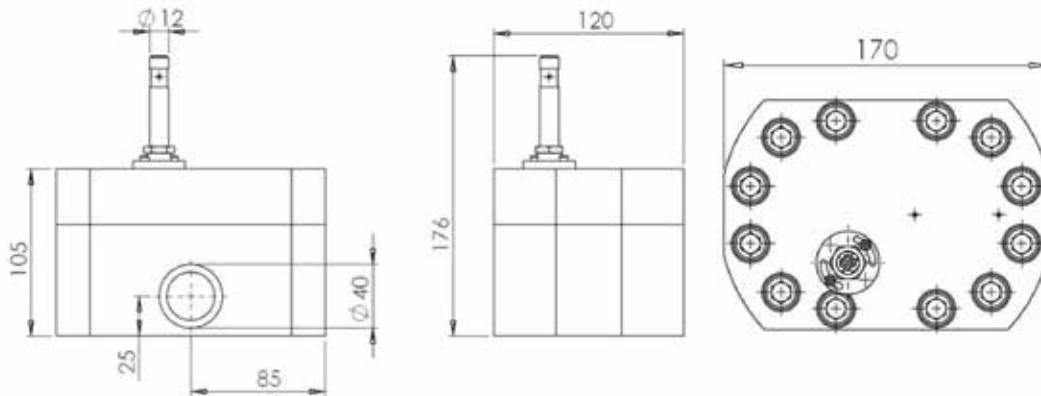
	FLS-150-100 O3PZ1211004
Dimensions	120 mm x 170 mm x 176 mm
Material	Anodized aluminum
Weight	6.3 kg
Threaded connection	G 1"
Degree of protection	IP65
Operating temperature	-25 °C..+80 °C
Electrical connection	For round connectors M 12x1, 4 poles 10 m connecting cable (including connector)
Supply voltage	15 – 30 V
Voltage output	0 – 10 V
Charging rate	< 20 mA (without load)

Maximum pressure	100 bar
Measuring range	3 – 150 l/min
Frequency	5.22 cm^3 = 1 pulse, max. 479 Hz at 150 l/min
Accuracy	3 % of measured value (measured at a flow of 20 mm^2/s)
Repeatability	± 0.3 %
Usability	Viscous fluid, self-lubricating media (technical soaps, pastes and non abrasive emulsions)
Filter range	< 30 μm
Conformity	CE

⚠️ **Important Notice!**
Dirt particles must not get into the flow chamber, as this might cause the blockage of the gearwheels.
It may therefore be necessary to install filters upstream of the sensor (mesh size < 30 μm).