

## VE



VES



VEG

## Your advantages

## Series

## VE

- No moving parts in the flow
- Switching point possible with extremely low flow rate
- High compressive strength
- Suitable for use in different nominal sizes

## Technical data

Type	VES (compact version)
<b>Length of measuring probe L1</b> → VES08 → VES09	31 mm 48 mm
<b>Thread length L2</b> → VES08 → VES09	15 mm 29 mm
<b>Temperature gradient</b>	4 °C/s
<b>Stand-by time</b>	Approx. 2...15 s
<b>Response time</b>	Approx. 1...13 s
<b>Max. pressure rating</b>	200 bar
<b>Medium temperature</b>	-20...85 °C
<b>Ambient temperature</b>	-20...60 °C
<b>Process connection</b>	G½ male
<b>Electrical connection</b>	4-pin-plug connector M12 x 1
<b>Degree of protection EN 60529</b>	IP67
<b>Switching transmitter</b>	<b>Integrated</b>
<b>Display</b>	LEDs: 1 red = alarm, 2 yellow = switching point, 3 - 6 green = flow
<b>Power supply</b>	24 VDC (±10 %)
<b>Current consumption</b>	70 mA
<b>Output signal</b>	PNP, open collector
<b>Max. output current</b>	400 mA (25 °C)

Technical data	
Type	VEG (separate version)
<b>Length of measuring probe L1</b> → VEG08 → VEG09	31 mm 48 mm
<b>Thread length L2</b> → VEG08 → VEG09	15 mm 35 mm
<b>Temperature gradient</b>	4 °C/s
<b>Stand-by time</b>	Approx. 2...15 s
<b>Response time</b>	Approx. 1...13 s
<b>Max. pressure rating</b>	200 bar
<b>Medium temperature</b>	-20...85 °C
<b>Ambient temperature</b>	-20...60 °C
<b>Process connection</b>	G½ male
<b>Electrical connection</b>	4-pin-plug connector M12 x 1
<b>Schutzart EN 60529</b>	IP67
<b>Switching transmitter</b>	<b>Separate</b>
<b>Display</b>	LEDs: 1 red = alarm, 2 yellow = switching point, 3 - 6 green = flow
<b>Power supply</b>	24 VDC (±20 %) (standard)   230 VAC (+10 % / -20 %) (on request)
<b>Current consumption</b>	80 mA   35 mA
<b>Output signal</b>	Relay, closing contact   Relay, change over contact
<b>Max. switching voltage</b>	230 VAC/250 VDC;   230 VAC/60 VDC;
<b>Max. output current</b>	1 A   4 A
<b>Max. switching capacity</b>	125 VA / 60 W   1000 VA / 60 W

### Working range of sensors

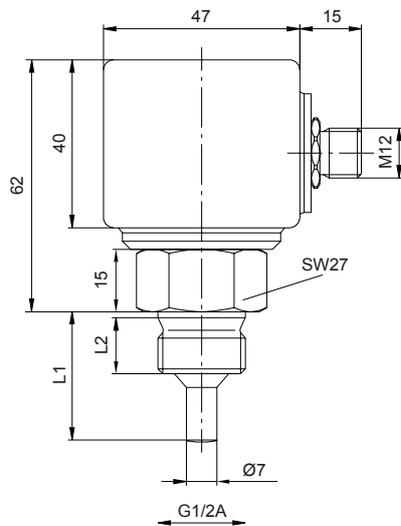
#### Set point range\*

Pipe size	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100	DN 150
<b>Water [l/min]</b>	0.1...18	0.2...33	0.3...52	0.6...91	0.8...124	1.3...199	2.2...335	3.1...462	5.2...784	11.4...1707
<b>Oil** [l/min]</b>	0.4...36	0.7...66	1...105	2...182	2.5...247	4...397	6.7...670	9.2...920	15.7...1568	34...3414

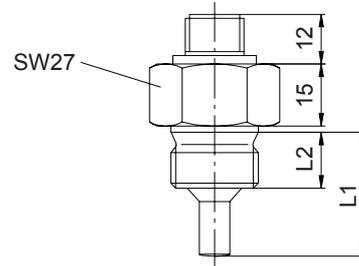
\* Detection range water: 1...150 cm/s; oil: 3...300 cm/s

\*\* Oil medium viscosity (approx. 80 mm<sup>2</sup> / s at 20 °C)

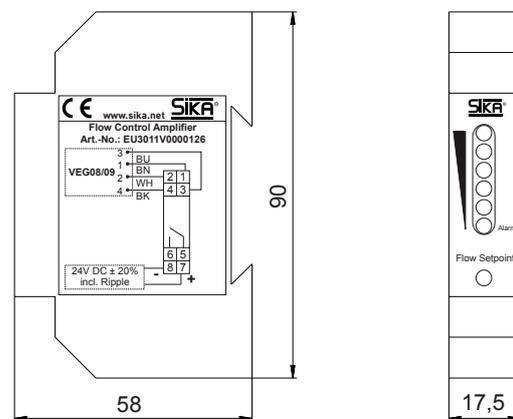
## VES (Compact version)



## VEG (Separate version)



## Switching transducer EU3011V0000126



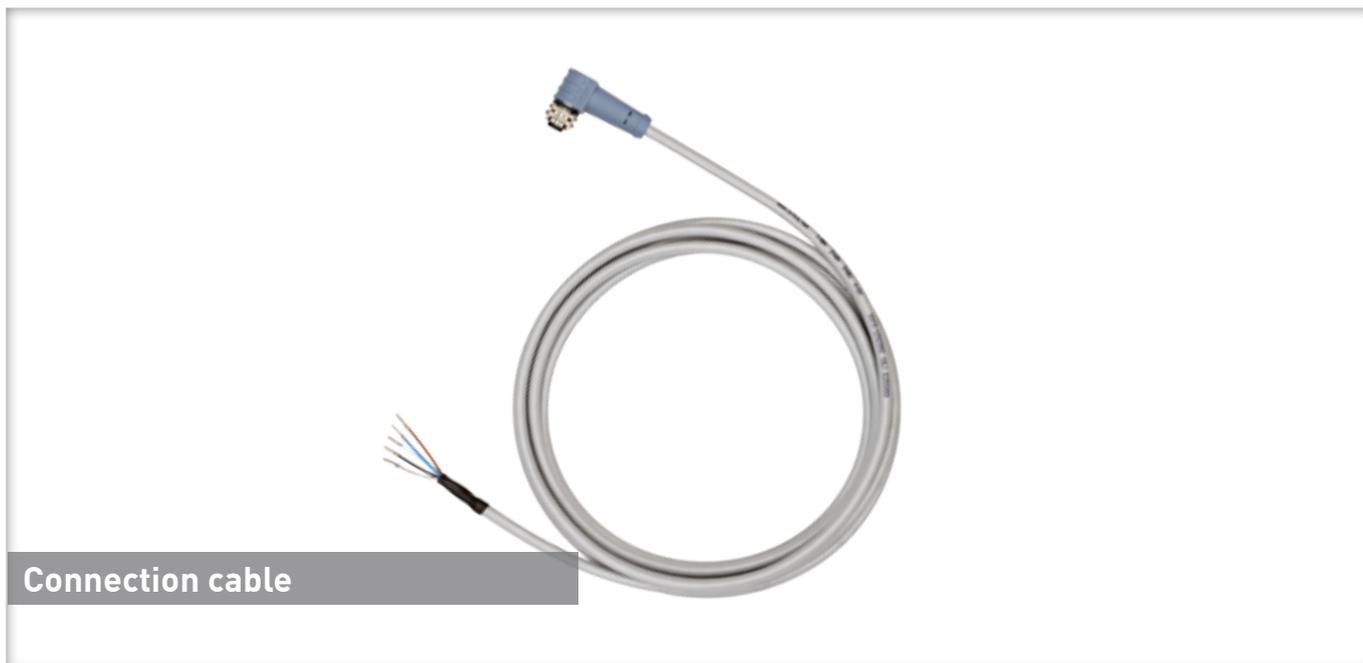
Material	Compact version	Separate version
Not in contact with fluid		
Housing	PBT	PC-GF
In contact with fluid		
Probe	Stainless steel 1.4571	

Order code	
Type	Order number
VES08 (compact version)	VES08
VES09 (compact version)	VES09
VEG08 (separate version)	VEG08
VEG09 (separate version)	VEG09

To order a separate version (VEG), 2 order numbers are required.  
The switching transmitter has to be selected and ordered separately.

Order code	
Type	Order number
Switching transducer (separate version), 24 VDC, 80 mA, Relay, closing contact	EU3011V0000126
Switching transducer (separate version), 230 VAC, 35 mA, Relay, closing contact	EU3011V0000240

## Accessories



Order code			
Accessories		Length	Order number
	Connection cable with 4-pin cable socket M12 x 1, angle type moulded lead, sheathing material PUR, shielded, (Tmax = 80 °C), UL-approval	3 m	XVT2053
		5 m	XVT2009
		10 m	XVT2070
	4 pin cable socket M12 x 1 angle type, unassembled		VT1331