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Brief operating instructions

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The brief operating instructions describe the basic functions of the switch. They are intended to provide a quick start for experienced users. Consult the detailed operating instructions for a more in-depth and complete description of the switch's functions.

See www.schmalz.com .

WARNING



Failure to follow the general safety instructions

Personal injury/damage to plants or systems

The safety instructions in the complete operating instructions must always be observed before start of operations with the switch.

↑ CAUTION



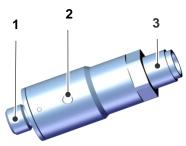


Inappropriate voltage supply

Destruction of the vacuum switch

- Only operate the switch using power supply units with protected extra-low voltage (PELV)
- ➤ The system must incorporate a safe electrical cut-off of the power supply in compliance with EN 60204
- Do not connect or disconnect the plug connectors when voltage is applied

Design



- 1 Fluid connection (tighten with max. 2.5 Nm)
- 2 Display: Switching point 1 (ORANGE), operating voltage (GREEN)
- 3 M12-4 electrical connection

Product description

The switch has two digital switching outputs (SIO mode).

A number of additional functions can be accessed during operation via IO-Link Class A.

The switch is parameterized using IO-Link.

To install the switch, screw in the fluid connection with a maximum of 2.5 $\,$ Nm. $\,$

Version

Туре	Pressure range	Display	Electrical connection
VSi-HD	V (-10 bar)	_	M12-4 (M12, 4-pin)

Electrical Connection

Plug	Pin	Symb.	Color ¹⁾	Function
M12	1	U_s	Brown	Power supply 10 to 30V DC
	2	OUT2	White	Signal output 2 (SIO)
(4 3)	3	Gnd	Blue	Ground
(1) (2)	4	OUT1	Black	C/Q (IO-Link) and signal output 1 (SIO)

¹⁾ When using a Schmalz connection cable

ATTENTION

Incorrect connection with the IO-Link class B port

Poss. damage to the IO-Link master or periphery

When operating the IO-Link class A switch with an IO-Link master with a class B port, ensure compliant connection and potential separation.

Basic Settings

Parameter	VSi-HD	Vacuum value [mbar]	Description
SP1	10.06.02.00700 10.06.02.00677	450 550	Switching point 1 setting
rP1	10.06.02.00700 10.06.02.00677	400 500	Reset point 1 setting
SP2	10.06.02.00700 10.06.02.00677	450 550	Switching point 2 setting
rP2	10.06.02.00700 10.06.02.00677	400 500	Reset point 2 setting

IO link process data

Process Data In	Name	Bits	Data type
PD In Byte 0	Vacuum in mbar, MSB	70	14 bit, V, P: unsigned integer VP: signed integer
	Vacuum in mbar, LSB	72	VP: signed integer
PD In Byte 1	Switching signal SP2	1	Boolean
	Switching signal SP1	0	Boolean



This switch supports IO-Link smart sensor profiles.

These operating instructions were originally written in German and have been translated into English.

Store in a safe place for future reference.