

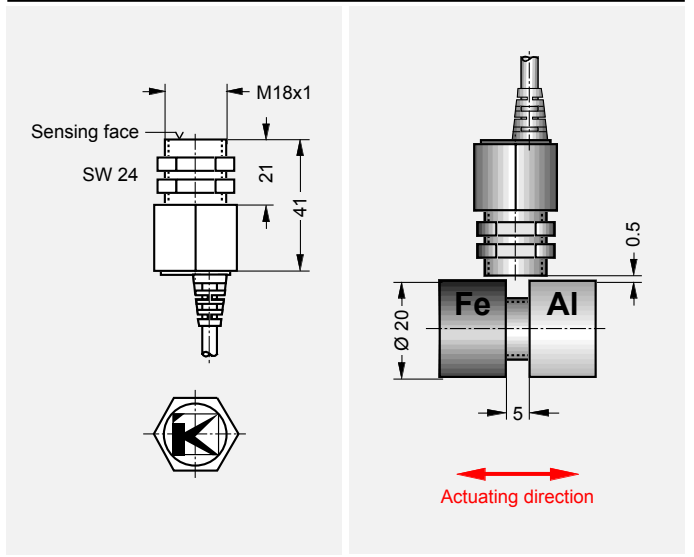
# Specific Sensors

## Valve Position Sensor IVA

<b>Sensor principle; design;</b> length		<b>Valve position recognition;</b> Ø M18 x 1; 41 mm	
Material of the sensing face / of the housing		PBT / CuZn nickel-plated	
<b>Path range; mounting</b>		<b>± 7 mm; flush</b>	
<b>Actuating distance a</b>		<b>0.5 mm</b>	
Type designation, Ref. no. (Wiring)		IVA-18ms41b±6-1PKc1/1,	13.31-01 (1)
Wiring (connector or lead); number of wires		lead; 3 wires	

### Common Technical Data

Voltage output	approx. 0.5 ... 4.5 V DC
Repetition accuracy of the measuring range (m. r.)	approx. 0.5%
Deviation of the linearity in zero point	± 0.5% (m.r.)
Temperature drift in zero point (+ 20 ... + 80 °C)	± 0.05% (m.r.) / K
Sensitivity in zero point	1.12 V / mm
Permissible ripple of the operating voltage	≤ 10%
Short-circuit-proof ?	no
Reverse voltage protection ?	yes



### Specific Technical Data

Permissible operating voltage range	15 ... 24 ... 30 V DC
Ø Sensing face	16.5 mm
Function indication	no
Maximum lead length	20 m
Lead type / standard lead length / number of leads x lead cross section	PK / 1.0 m / 3 x 0.34 mm <sup>2</sup>
Protection rating according to IEC 60529	IP 67
Protection class	
Permissible torque with / without toothed disc	34 Nm / 70 Nm
Weight	approx. 77 g with 1 m lead (without counter nuts)
Recommended accessories	see chapter 12

### These values refer to the specified actuator geometry:

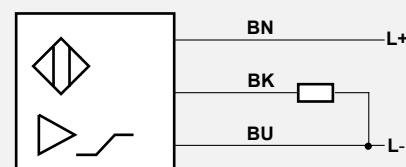
#### Steel (Fe) ... 5 mm air gap ... Aluminium (Al).

For proximity switches with lead connection: The standard length is 2.0 m and/or 5.0 m. Lead lengths are marked at the end of each ref. no. by the index -020 and/or -050. Please indicate deviating lengths in the ref. no. index.

Examples: Lead length 10.0 m: Index -100, lead length 0.5 m: Index -005.

### Wiring (1)

DC 3-poles, lead connection



### Certifications

Proximity switches according to standard:  
DIN EN 60 947-5-2 (VDE 0660 Part 208).  
Manufactured according to DIN EN ISO 9001



### Safety Regulations

Connection, commissioning and maintenance may only be accomplished by specialists or instructed staff.

Subject to technical changes!

### Output function with 5 mm air gap

