

## F43 TUBE MOUNTING SERIES

## ARTICLE PROPERTIES

<b>SENSOR TYPE</b>	Capacitive sensor	<b>CONNECTION TYPES</b> ( <i>see table</i> )	
<b>SIZE</b>	24 x 43 x 20 mm 33 x 34 x 20 mm	• cable	PVC, 0.14 mm <sup>2</sup> , 2 m**
<b>TUBE WALL THICKNESS</b>	<i>see table</i>		
<b>NUMBER OF CONDUCTORS</b>	3-wire ( <i>see table</i> )	** other cable lengths are available on request	

## MECHANICAL DATA

<b>MOUNTING</b> (mounting nuts included in delivery)	non-flush ( <i>see table</i> )
<b>HOUSING</b>	rectangular
<b>MATERIAL HOUSING</b>	PBT
<b>MATERIAL SENSING SURFACE</b>	PBT
<b>TIGHTENING TORQUE LOCKING</b>	10 Nm
<b>STANDARD TEST</b>	FE360

## ELECTRICAL DATA

<b>OPERATING VOLTAGE</b>	DC: 10 ... 30 V DC
<b>RATED OPERATING CURRENT</b>	3-wire: ≤ 200 mA
<b>APPLICABLE TUBE DIAMETER</b>	<i>see table</i>
<b>SWITCHING OUTPUT</b>	<i>see table</i>
<b>FUNCTION INDICATOR</b>	yellow LED
<b>HYSTERESIS</b>	3 ... 15 %
<b>TEMPERATURE DRIFT</b>	±10 %
<b>SHORT-CIRCUIT PROTECTION</b>	yes
<b>OVERLOAD RESISTANCE</b>	yes
<b>REVERSE POLARITY PROTECTION</b>	yes

## ENVIRONMENTAL CONDITIONS

<b>PROTECTION CLASS</b>	IP67	<b>VIBRATION RESISTANCE (EN 60068-2-27)</b>	50 Hz, 1 mm
<b>AMBIENT TEMPERATURE</b>	-25 ... 70 °C	<b>SHOCK RESISTANCE (EN 60068-2-6)</b>	30g/11 ms

## STANDARDS AND DIRECTIVES

<b>LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR</b>	DIN EN IEC 60947-5-2:2021-04
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## APPROVALS



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## DC 3-WIRE OUTPUT CABLE

Article number	Tube wall thickness	Applicable tube diameter	Switching output (wiring diagram)	Voltage range UB	Dimensions
NC5-F43D11-OP6L	≤ 1 mm	∅ 8-11 mm	PNP NO (WD5)	10 ... 30 V DC	<i>see Fig. 1</i>
NC5-F43D11-ON6L	≤ 1 mm	∅ 8-11 mm	NPN NO (WD6)	10 ... 30 V DC	<i>see Fig. 1</i>
NC5-F43D11-CP6L	≤ 1 mm	∅ 8-11 mm	PNP NC (WD7)	10 ... 30 V DC	<i>see Fig. 1</i>
NC5-F43D11-CN6L	≤ 1 mm	∅ 8-11 mm	NPN NC (WD8)	10 ... 30 V DC	<i>see Fig. 1</i>
NC3-F43D26-OP6L	≤ 1.5 mm	∅ 12-26 mm	PNP NO (WD5)	10 ... 30 V DC	<i>see Fig. 2</i>
NC3-F43D26-ON6L	≤ 1.5 mm	∅ 12-26 mm	NPN NO (WD6)	10 ... 30 V DC	<i>see Fig. 2</i>
NC3-F43D26-CP6L	≤ 1.5 mm	∅ 12-26 mm	PNP NC (WD7)	10 ... 30 V DC	<i>see Fig. 2</i>
NC3-F43D26-CN6L	≤ 1.5 mm	∅ 12-26 mm	NPN NC (WD8)	10 ... 30 V DC	<i>see Fig. 2</i>

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DIMENSIONS

Fig. 1 Capacitive sensor with cable (non-flush)

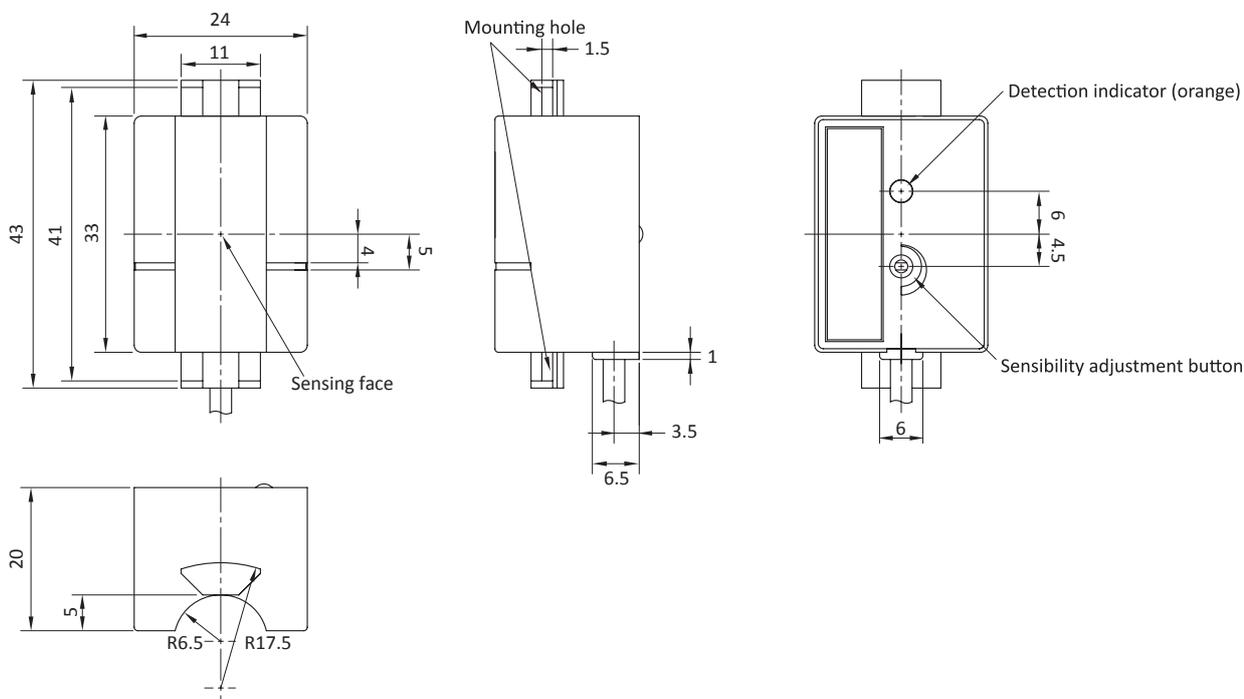
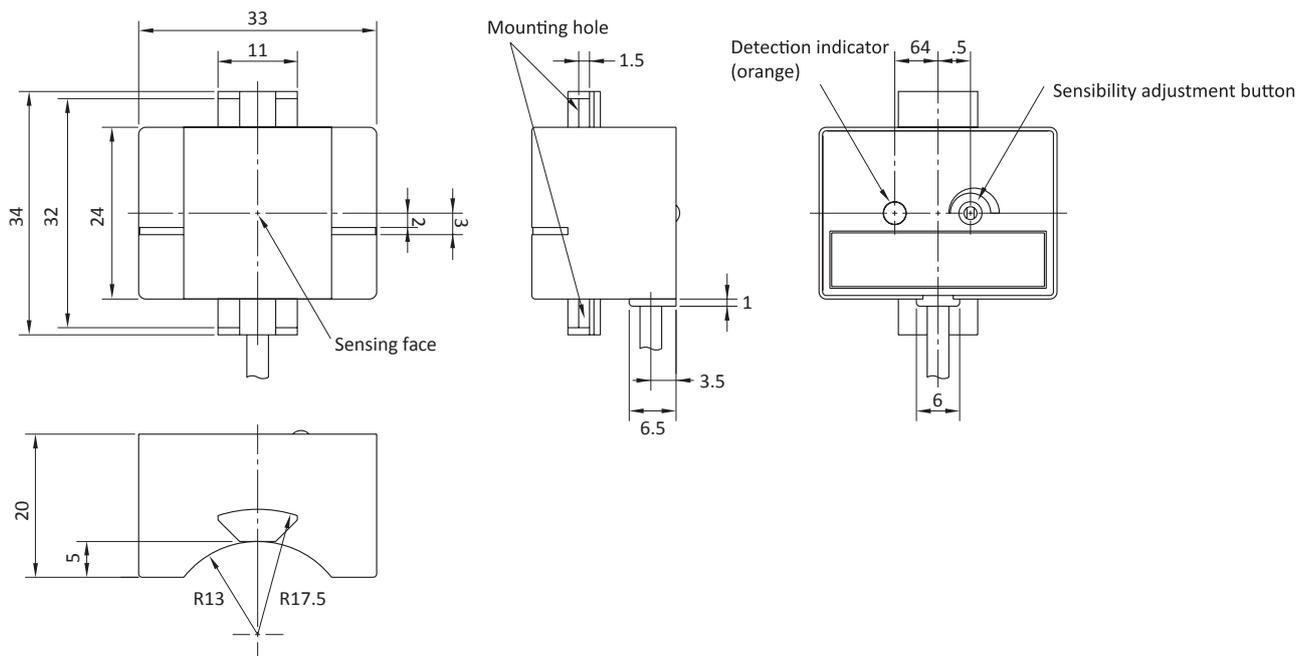


Fig. 2 Capacitive sensor with cable (non-flush)

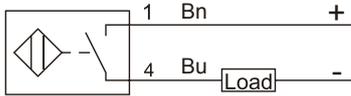


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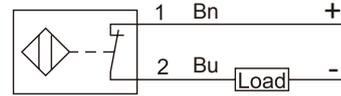
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WIRING DIAGRAMS (Note: 1 / 2 / 3 / 4 connector and terminals pin number Bn / Bu / Wh / Bk cable color)

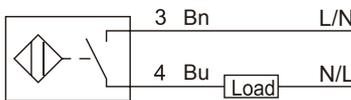
**WD1 DC 2-wire NO**



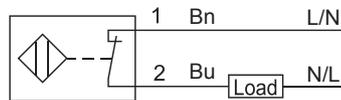
**WD2 DC 2-wire NC**



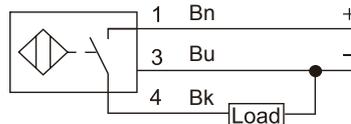
**WD3 AC 2-wire NO**



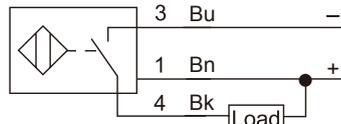
**WD4 AC 2-wire NC**



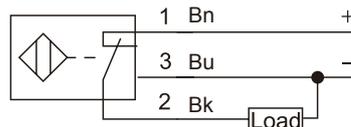
**WD5 DC 3-wire PNP NO**



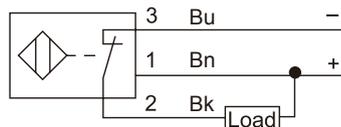
**WD6 DC 3-wire NPN NO**



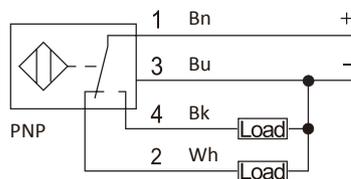
**WD7 DC 3-wire PNP NC**



**WD8 DC 3-wire NPN NC**



**WD9 DC 4-wire PNP NO + NC**



**WD10 DC 4-wire NPN NO + NC**

