

Sensor technologies → Proximity sensors

Sensor, Series ST6

► 6 mm groove ► with cable ► Plug, M8, 3-pin, with knurled screw



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Certificates	UL (Underwriters Laboratories)
Ambient temperature min./max.	See table below
Protection class according to EN 60529:2000	IP 65IP 67
Switching point precision [mm]	±0,1
Switching capacity	3 W / 3 VA
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms

Materials:  
Housing Polyamide

	Type of contact	Cable length L [m]	DC operating voltage min./max. [V]	Operational voltage AC min./max. [V]	DC switching current, max. [A]	AC switching current, max. [A]	Part No.
	Reed	0.3	10 / 30	10 / 30	0,13	0.1	<b>R412004761</b>
		0.3				0,13	<b>0830100434</b>
		0.5				0,13	<b>0830100436</b>
	electronic PNP	0.3	10 / 30	-	0.1	0.1	<b>0830100435</b>
		0.3					<b>R412004762</b>
		0.5					<b>0830100437</b>
	electronic NPN	0.3	10 / 30	-	0.1	-	0830100431
	Reed	0.3	10 / 30	10 / 30	0,13	0.1	R412007840

Part No.	Voltage drop U at I <sub>max</sub> [V]	Ambient temperature min./max.	Protective resistor for reed [Ω]	Max. switching frequency [kHz]	Operating current, not switched [mA]	Operating current, switched [mA]	Material Cable
<b>R412004761</b> <b>0830100434</b> <b>0830100436</b>	I*Rs	-25 °C / +75 °C	15	≤ 0,3	-	< 10	Polyvinyl chloride Polyurethane Polyurethane
<b>0830100435</b> <b>R412004762</b> <b>0830100437</b>	≤ 2,5	-25 °C / +70 °C	-	< 1,0	< 20	< 30	Polyurethane Polyvinyl chloride Polyurethane
0830100431	≤ 2,5	-25 °C / +70 °C	-	< 1,0	< 20	< 30	Polyurethane
R412007840	I*Rs	-25 °C / +75 °C	15	≤ 0,3	-	< 10	Polyvinyl chloride

Part No.	Note
<b>R412004761</b> <b>0830100434</b> <b>0830100436</b>	1)
<b>0830100435</b> <b>R412004762</b> <b>0830100437</b>	2)
0830100431	2)

- 1) Protected against polarity reversal
- 2) short circuit resistant; Protected against polarity reversal
- 3) Combination: slotted and hexagon socket interfaces: Plug; M8; 3-pin; with knurled screw

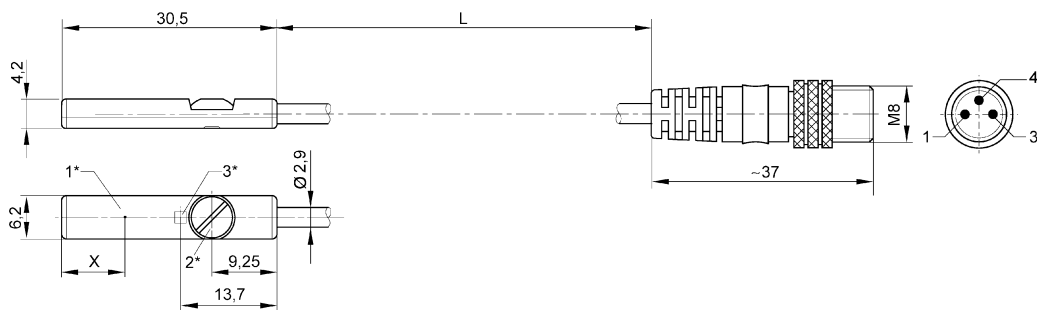
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R412007840	1); 3)

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**Dimensions**

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- 1\* = switching point 2\* = clamping screw 3\* = LED  
 L = cable length  
 X = electronic: 6 mm, Reed: 10 mm  
 Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998