Sensor technologies → Proximity sensors

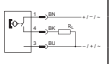
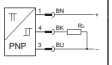
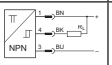
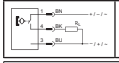
Sensor, Series ST6

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



00112027_5

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	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	Reed	0.3	10 / 30	10 / 30	0,13	0.1	**R412004761**
		0.3				0,13	**0830100434**
		0.5				0,13	**0830100436**
	electronic PNP	0.3	10 / 30	-	0.1	0.1	**0830100435**
		0.3					**R412004762**
		0.5					**0830100437**
	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 Imax	Ambient temperature min./max.	Protective resistor for reed	Max. switching frequency	Operating current, not switched	Operating current, switched	Material Cable
	[V]		[Ω]	[kHz]	[mA]	[mA]	
R412004761	I*Rs	-25 °C / +75 °C	15	≤ 0,3	-	< 10	Polyvinyl chloride
0830100434		-25 °C / +70 °C		< 0,3			Polyurethane
0830100436		-25 °C / +70 °C		< 0,3			Polyurethane
0830100435	≤ 2,5	-25 °C / +70 °C	-	< 1,0	< 20	< 30	Polyurethane
R412004762							Polyvinyl chloride
0830100437							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
R412004761	1)
0830100434	
0830100436	
0830100435	2)
R412004762	
0830100437	
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

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information

Sensor technologies → Proximity sensors

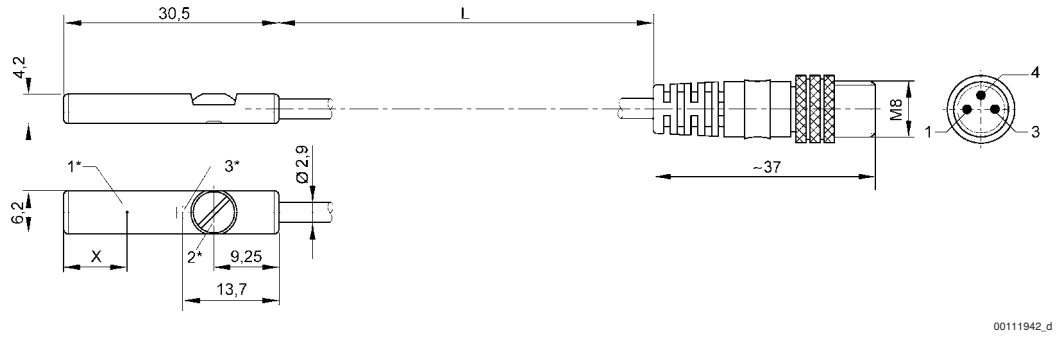
Sensor, Series ST6

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

Part No.	Note
R412007840	1); 3)

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

Dimensions



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