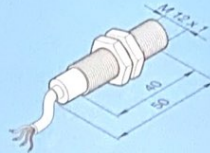


**pulsotronic**

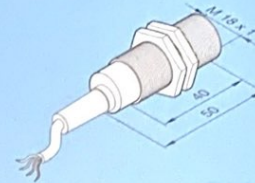
**DC-Program  
PULSORS® with self-  
monitoring through electric  
damping / undamping of  
oscillator cylindrical / block  
shaped housing**  
**18 V – 30 V**


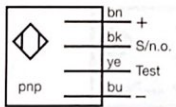
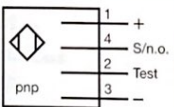
● operates with PULSOTRONIC  
Switching Unit No. 8100-2000/-2300


**M 12**



**M 18**



<b>Rated operating distance</b>	<b>2 mm</b>
Mounting application	embeddable
Switching element function	
Order No.	with cable 9962-5100 PNP  with M 12 plug-connector 9962-5165 PNP
<b>Usable supply voltage</b>	<b>18 V ... 30 V DC</b>
Ripple voltage	≤ 10 %
No load supply current	≤ 8 mA
<b>Rated operational current</b>	<b>30 mA</b>
Voltage drop	≤ 2,5 V
Off-state current	≤ 100 µA
<b>Short circuit protection</b>	●
Overload protection	●
Reverse battery protection	●
Wire break resistance	●
<b>Operating frequency</b>	<b>2000 Hz</b>
Differential travel (hysteresis)	≤ 15 %
Temperature drift	≤ 10 %
Repeat accuracy	≤ 10 %
Housing material	Nickel-plated brass
Front cap	PBTP
<b>Termination</b>	<b>PVC cable 4 x 0,25 mm<sup>2</sup> or M 12 plug connection</b>
Cable length	2 m
Degree of protection (IEC 529/EN 60529)	IP 67
<b>TAmbient air temperature</b>	<b>-25 °C ... +70 °C</b>
Wiring Diagrams	 

<b>Rated operating distance</b>	<b>5 mm</b>
Mounting application	embeddable
Switching element function	
Order No.	with cable 9964-5100 PNP  with M 12 plug-connector 9964-5165 PNP
<b>Usable supply voltage</b>	<b>18 V ... 30 V DC</b>
Ripple voltage	≤ 10 %
No load supply current	≤ 8 mA
<b>Rated operational current</b>	<b>30 mA</b>
Voltage drop	≤ 2,5 V
Off-state current	≤ 100 µA
<b>Short circuit protection</b>	●
Overload protection	●
Reverse battery protection	●
Wire break resistance	●
<b>Operating frequency</b>	<b>1000 Hz</b>
Differential travel (hysteresis)	≤ 15 %
Temperature drift	≤ 10 %
Repeat accuracy	≤ 5 %
Housing material	Nickel-plated brass
Front cap	PBTP
<b>Termination</b>	<b>PVC cable 4 x 0,25 mm<sup>2</sup> or M 12 plug connection</b>
Cable length	2 m
Degree of protection (IEC 529/EN 60529)	IP 67
<b>TAmbient air temperature</b>	<b>-25 °C ... +70 °C</b>
Wiring Diagrams	