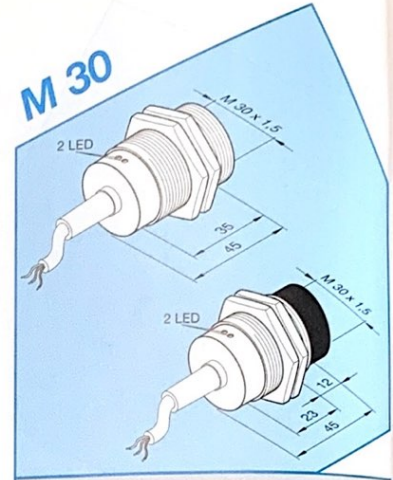
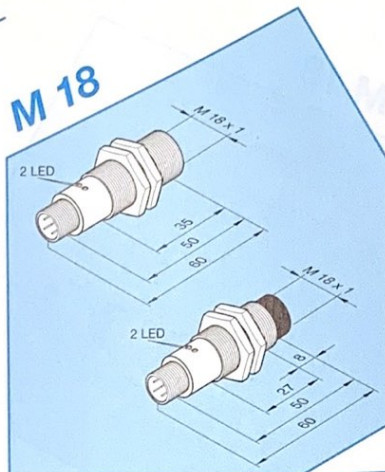


**DC-Program**  
**Series GL**  
**Cylindrical Housing**  
**10 V – 60 V, 400 mA**  
**2 LEDs for operating voltage**  
**and switched output state**



Rated operating distance	5 mm	8 mm
	Mounting application	embeddable
Switching element function		
Order No.	9984-4065 PNP 9984-4165 NPN	9984-4265 PNP 9984-4365 NPN
Switching element function		
Order No.	9984-4465 PNP 9984-4565 NPN	9984-4665 PNP 9984-4765 NPN
<b>Usable supply voltage</b>	<b>10 V ... 60 V DC</b>	
Ripple voltage	≤ 10 %	
No load supply current	≤ 10 mA	
<b>Rated operational current</b>	<b>400 mA</b>	
Voltage drop	≤ 2,4 V	
Off-state current	≤ 10 µA	
<b>Short circuit protection</b>	●	
Overload protection	●	
Reverse battery protection	●	
Wire break resistance	●	
<b>Operating frequency</b>	<b>1000 Hz</b>	<b>500 Hz</b>
Differential travel (hysteresis)	≤ 15 %	
Temperature drift	≤ 10 %	
Repeat accuracy	≤ 5 %	
Housing material	Nickel-plated brass	
Front cap	PBTP	
<b>Termination</b>	<b>M 12 plug connection</b>	
PVC 2 m / 5 m	-	
PUR 2 m / 5 m	-	
Degree of protection (IEC 529/EN 60529)	IP 67	
<b>Ambient air temperature</b>	<b>-25 °C ... +70 °C</b>	
LED	2 LED	
Wiring Diagrams		

10 mm	15 mm	
embeddable	non embeddable	
9986-4000 PNP 9986-4100 NPN	9986-4200 PNP 9986-4300 NPN	
9986-4400 PNP 9986-4500 NPN	9986-4600 PNP 9986-4700 NPN	
<b>10 V ... 60 V DC</b>		
≤ 10 %		
≤ 10 mA		
<b>400 mA</b>		
≤ 2,4 V		
≤ 10 µA		
●		
●		
●		
●		
<b>500 Hz</b>		<b>300 Hz</b>
≤ 15 %		≤ 10 %
≤ 10 %		≤ 5 %
Nickel-plated brass		Nickel-plated brass
PBTP		PBTP
<b>Cable (3 x 0,34 mm<sup>2</sup>)</b>		
xxxx-xx00 / xxxx-xx02		
xxxx-xx10 / xxxx-xx12		
IP 67		
<b>-25 °C ... +70 °C</b>		
2 LED		