



Bestellbezeichnung <i>Order number</i>	Serie <i>Type</i>	Erfassungsbereich <i>Sensing range</i>	Schaltausgang <i>Switching output</i>	Anschluss <i>Wiring</i>
3RG7122-0GB00-PF	M12	400cm	NPN, hellschaltend <i>NPN, light-on</i>	Kabel 2m, PUR, 3x0,34mm <sup>2</sup> <i>Cabel 2m, PUR, 3x0,34mm<sup>2</sup></i>
3RG7122-0GA00-PF	M12	400cm	NPN, dunkelschaltend <i>NPN, dark-on</i>	Kabel 2m, PUR, 3x0,34mm <sup>2</sup> <i>Cabel 2m, PUR, 3x0,34mm<sup>2</sup></i>
3RG7122-0BG00-PF	M12	400cm	Sender	Kabel 2m, PUR, 3x0,34mm <sup>2</sup> <i>Cabel 2m, PUR, 3x0,34mm<sup>2</sup></i>
3RG7122-3GB00-PF	M12	400cm	NPN, hellschaltend <i>NPN, light-on</i>	M12 Stecker, 3-polig <i>M12 connector, 3 poleF</i>
3RG7122-3GA00-PF	M12	400cm	NPN, dunkelschaltend <i>NPN, dark-on</i>	M12 Stecker, 3-polig <i>M12 connector, 3 pole</i>
3RG7122-3BG00-PF	M12	400cm	Sender	M12 Stecker, 3-polig <i>M12 connector, 3 pole</i>

Funktion <i>Operating modes</i>		Einweg-Lichtschranke <i>Thru-beam sensor</i>
Erfassungsbereich <i>Sensing range</i>		400cm <i>400cm</i>
Lichtart <i>Used light</i>		rot, 660 nm <i>red, 660nm</i>

Versorgungsspannung <i>Power supply voltage</i>		
Bemessungsbetriebsspannung <i>Rated operational voltage</i>	U <sub>e</sub>	24 V DC
Betriebsspannungsbereich <i>Operating voltage range</i>	U <sub>B</sub>	10...36 V DC
Zulässige Restwelligkeit <i>max. ripple content</i>		20%
Leerlaufstrom <i>No-load supply current</i>	I <sub>o</sub>	≤ 15 mA

Ausgang <i>Output</i>		
Anzahl d. Schaltausgänge <i>Numbers of switching outputs</i>		1
Ausgangsart <i>Output type</i>		NPN, hell- oder dunkelschaltend <i>NPN, light-on or dark-on</i>
Bemessungsbetriebsstrom <i>Rated operational current</i>	I <sub>e</sub>	200 mA
Spannungsfall max. <i>Output voltage drop</i>	U <sub>d</sub>	≤ 2 V

Zeiten, Frequenzen <i>Timing, frequency</i>		
Schaltfrequenz <i>Switching frequency</i>		1000 Hz
Schaltzeit <i>Switching time</i>		0,5 ms

Temperaturen <i>Temperatures</i>		
Zul. Umgebungstemperatur <i>Ambient temperature range</i>		-25...+55 °C
Temperaturkoeffizient <i>Temperature coefficient</i>		0,3 %/K



Mechanische Schutzmaßnahmen/ <i>Mechanical protections</i>		
Schutzart <i>Degree of protection</i>		IP67
Schockbeanspruchung <i>Shock</i>		30g/11ms; 3 Achsen nach EN60947-5-7 <i>30g/11ms; 3 axis accord.to EN60947-5-7</i>
Vibrationsbeanspruchung <i>Vibrations</i>		10...55Hz / 1,5mm Amplitude; 3 Achsen nach EN60947-5-2 <i>10...55Hz / 1,5mm Amplitude; 3 axis accord.to EN60947-5-2</i>

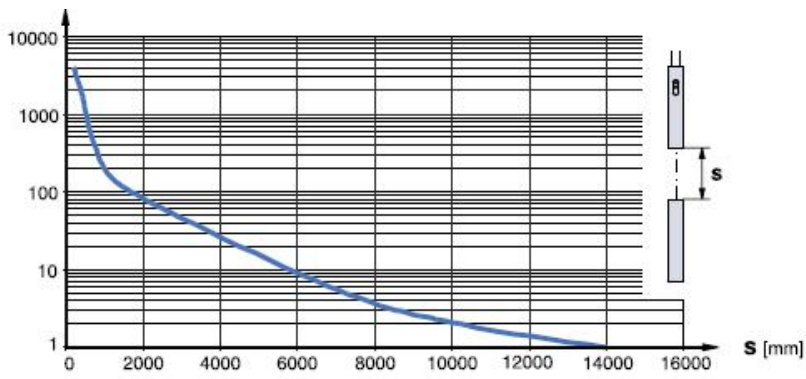
Elektrische Schutzmaßnahmen/ <i>Electrical protection, EMV</i>		
Verpolungsschutz <i>Reverse voltage protection</i>		Eingebaut <i>Built in</i>
Kurzschluss-Schutz <i>Short circuit protection</i>		Eingebaut <i>Built in</i>
Drahtbruchsicherheit <i>Wire break protection</i>		Eingebaut <i>Built in</i>
Induktionsschutz <i>Inductive over voltage</i>		Eingebaut <i>Built in</i>
Einschaltfehlimpuls <i>Switch-on pulse</i>		Eingebaut <i>Built in</i>
IEC 61000-4-2 ESD (kV)		+/- 8 kV Luft; +/- 4kV direkt <i>+/- 8 kV air; +/- 4kV direct</i>
IEC 61000-4-3 gestrahltes HF Feld (V/m)		3 V/m
IEC 61000-4-4 Burst (kV)		+ 2kV
Fremdlichtgrenze/ <i>Ambient light</i>		5000 Lux Halogen / 10000 Lux Sonnenlicht <i>5000 lux halogen / 10000 lux sun light</i>

Anzeigen / <i>Indicators</i>		
Betriebsspannung/ <i>Operating voltage</i>		-
Schaltzustand/ <i>Output signal</i>		LED gelb <i>LED yellow</i>
Funktionsreserve <i>Surplus light</i>		LED grün <i>LED green</i>

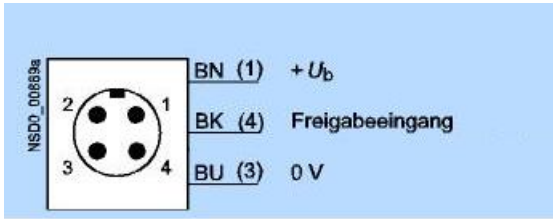
Konstruktive Merkmale / <i>Design characteristics</i>		
Max. zul. Leitungslänge/ <i>Max. cable length</i>		300 m
Anschlussart/ <i>Type of connection</i>		Kabel oder Stecker, M12 <i>Cable or M12 connector</i>
Gehäusematerial/ <i>Housing material</i>		Messing, vernickelt <i>Brass, nickel-plated</i>
Baugröße <i>Housing size</i>		M12 x 50mm oder M12 x 60mm <i>M12 x 50mm or M12 x 60mm</i>
Gewicht / <i>Weight</i>		6RG7122-0 : 100 g 6RG7122-3 : 20 g



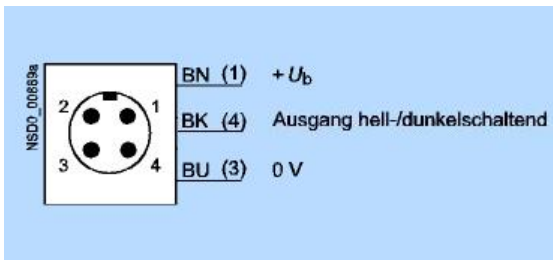
## Funktionsreserve/ Excess-gain indication



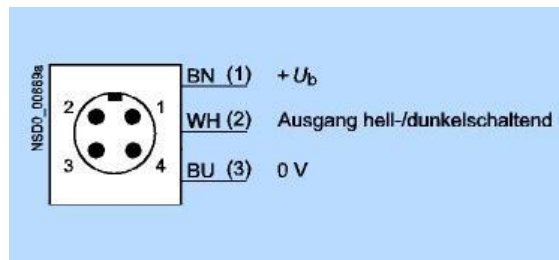
## Anschluss M12 Stecker Wiring M12 connector



Sender  
Emitter

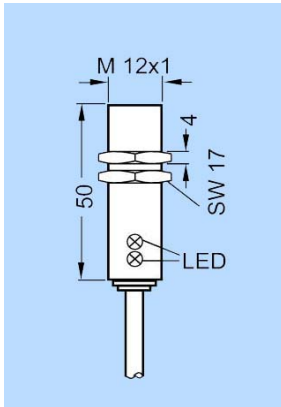


hellschaltend  
light-on

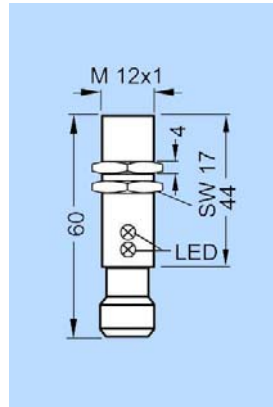


dunkelschaltend  
dark-on

## Maßzeichnung Dimensional drawing



3RG7122-0..00-PF



3RG7122-3..00-PF

## Kennlinie Characteristic curve

