

Bestellbezeichnung <i>Order number</i>	Serie <i>Type</i>	Erfassungsbereich <i>Sensing range</i>	Schaltausgang <i>Switching output</i>	Anschluss <i>Wiring</i>
3RG7175-0CC00-PF	L18	50m	PNP, hell- und dunkelschaltend <i>PNP, light-on and dark-on</i>	Kabel 3m, PUR <i>Cabel 3m, PUR</i>
3RG7175-0BE00-PF	L18	50m	Sender	Kabel 3m, PUR <i>Cabel 3m, PUR</i>
3RG7175-3CC00-PF	L18	50m	PNP, hell- und dunkelschaltend <i>PNP, light-on and dark-on</i>	M12 Stecker, 4-polig <i>M12 connector, 4pole</i>
3RG7175-3BE00-PF	L18	50m	Sender	M12 Stecker, 4-polig <i>M12 connector, 4pole</i>

Funktion <i>Operating modes</i>		Laser-Einweg-Lichtschranke <i>Laser thru-beam sensor</i>
Erfassungsbereich <i>Sensing range</i>		50m (einstellbar mit Potentiometer) <i>50m (adjustable via potentiometer)</i>
Lichtart <i>Used light</i>		Rot, 660 nm (rotes Laserlicht, polarisiert) <i>red, 660nm (red laser light, polarized)</i>
Laserschutzklasse <i>Laser protection class</i>		2

Versorgungsspannung <i>Power supply voltage</i>		
Bemessungsbetriebsspannung <i>Rated operational voltage</i>	U _e	24 V DC
Betriebsspannungsbereich <i>Operating voltage range</i>	U _B	10...30 V DC
Zulässige Restwelligkeit <i>max. ripple content</i>		10%
Leerlaufstrom <i>No-load supply current</i>	I _o	≤15mA (Empfänger), ≤10mA (Sender) <i>≤15mA (receiver), ≤10mA (emitter)</i>

Ausgang <i>Output</i>		
Anzahl d. Schaltausgänge <i>Numbers of switching outputs</i>		2
Ausgangsart <i>Output type</i>		PNP, hell- und dunkelschaltend <i>PNP, light-on and dark-on</i>
Bemessungsbetriebsstrom <i>Rated operational current</i>	I _e	200 mA
Spannungsfall max. <i>Output voltage drop</i>	U _d	≤ 2 V



Zeiten, Frequenzen <i>Timing, frequency</i>		
Schaltfrequenz <i>Switching frequency</i>		6000 Hz
Schaltzeit <i>Switching time</i>		< 0,083 ms

Temperaturen <i>Temperatures</i>		
Zul. Umgebungstemperatur <i>Ambient temperature range</i>		-10...+60 °C
Temperaturkoeffizient <i>Temperature coefficient</i>		0,1 %/K

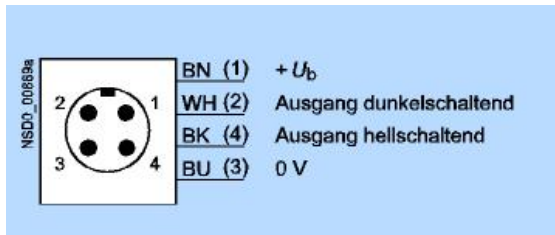
Mechanische Schutzmaßnahmen/ <i>Mechanical protections</i>		
Schutzart <i>Degree of protection</i>		IP65
Schockbeanspruchung <i>Shock</i>		30g/11ms; 3 Achsen nach EN60947-5-7 <i>30g/11ms; 3 axis accord.to EN60947-5-7</i>
Vibrationsbeanspruchung <i>Vibrations</i>		10...55Hz / 1,5mm Amplitude; 3 Achsen 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>
Überlastschutz <i>Overload 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>

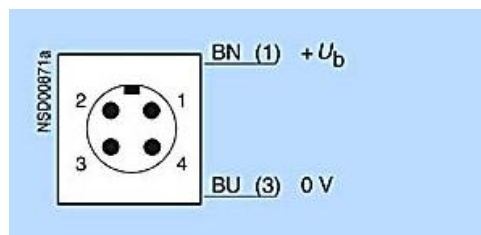
Anzeigen / <i>Indicators</i>		
Betriebsspannung/ <i>Operating voltage</i>		LED grün <i>LED green</i>
Schaltzustand/ <i>Output signal</i>		LED gelb <i>LED yellow</i>
Funktionsreserve/ <i>Surplus light</i>		LED rot <i>LED red</i>

Konstruktive Merkmale / <i>Design characteristics</i>	
Max. zul. Leitungslänge/ <i>Max. cable length</i>	300 m
Anschlussart/ <i>Type of connection</i>	Kabel 4x0,25mm ² oder Stecker, M12 <i>Cable 4x0,25mm² or M12 connector</i>
Gehäusematerial/ <i>Housing material</i>	Messing, vernickelt <i>Brass, nickel-plated</i>
Baugröße <i>Housing size</i>	Sender M18 x 64mm, Empfänger M18 x 75mm <i>Emitter M18 x 64mm, receiver M18 x 75mm</i>
Gewicht / <i>Weight</i>	6RG71 75-0 : 175 g 6RG71 75-3 : 75 g

Anschluss M12 Stecker *Wiring M12 connector*

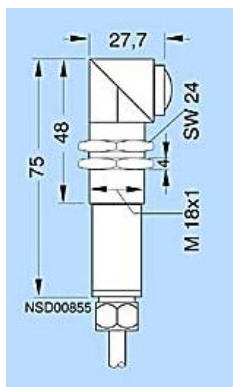


hell- und dunkelschaltend
light-on and dark-on

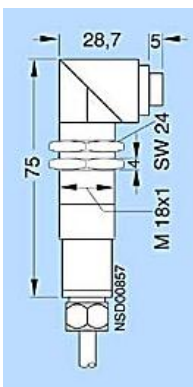
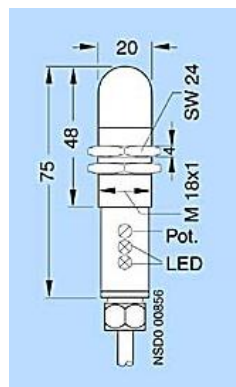


Sender
emitter

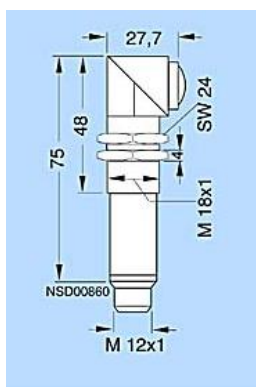
Maßzeichnung *Dimensional drawing*



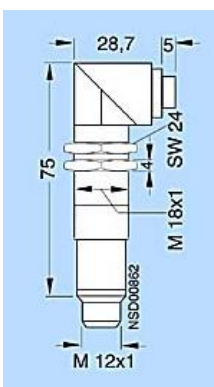
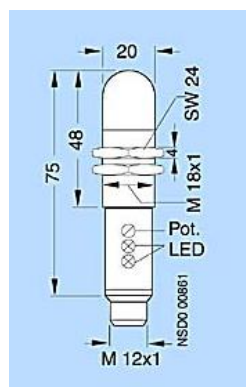
3RG71 75-0C.00-PF



3RG71 75-0BE00-PF



3RG71 75-3C.00-PF



3RG71 75-3BE00-PF