
Ultrasonic proximity switch

3RG6232-3AB00-PF	Compact range M18, normally open Kompaktreihe M18, Schließer	Connector M12 Stecker M12
3RG6232-3AA00-PF	Compact range M18, normally closed Kompaktreihe M18, Öffner	Connector M12 Stecker M12

Size/Bauform : cylindrical M18/ zylindrisch M18

Function/Funktion : Diffuse / Taster

Operating distance/Schaltabstand

Sensing range/Erfassungsbereich : 50 ... 300 mm
 Focusing range/Einstellbereich : 70 ... 300 mm
 Adjustment/Einstellung : Potentiometer / SONPROG
 Standard target/Normmessplatte : 10 x 10 mm
 Repeat accuracy/Wiederholgenauigkeit R : +/- 2 mm
 Switching hysteresis/Hysterese H : 10 mm
 Rated ultrasonic frequency/
 Ultraschallnennfrequenz : 400 kHz

**Power supply voltage/
 Versorgungsspannung**

Rated operational voltage/
 Bemessungsbetriebsspannung Ue : 24 V DC
 Operating voltage range/
 Betriebsspannungsbereich UB : 12 ... 30 V DC incl. ripple content /
 12 ... 30 V DC incl. Restwelligkeit
 by reduction of operating voltage/
 bei Betriebsspannungsreduzierung : 12 V < operating voltage < 20 V/
 12 V < Betriebsspannung < 20 V
 Detection/Erfassung : 20 % < reduced sensitivity < 0 %/
 20 % < reduzierte Empfindlichkeit < 0 %
 No-load supply current/Leerlaufstrom Io : max. 60 mA
 max. ripple content/zul. Restwelligkeit : 10 %

Output/Ausgang

Output/Ausgangsart : pnp
 Rated operational current/
 Bemessungsbetriebsstrom Ie : max. 150 mA
 Output voltage drop/Spannungsfall max. Ud : max. 3V (150mA)
 Off-state current/Reststrom Ir : max. 0,01 mA
 Short circuit strength/Kurzschlußfestigkeit : built-in/eingebaut
 Overload withstand capability/
 Überlastfestigkeit : built-in/eingebaut

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Bidirectional connection „Release“/ Bidirektionaler Anschluß „Freigabe“

As release input/als Freigabeeingang

max. input voltage/ max. Eingangsspannung	:	30 V
max. L-Level (SONAR-BERO inactive)/ max. L-Pegel (SONAR-BERO inaktiv)	:	0 ... 3 V
min. H-Level (SONAR-BERO active)/ min. H-Level (SONAR-BERO aktiv)	:	15 ... 30 V or high-resistance/oder hochohmig
Input resistance (current sink)/ Eingangswiderstand (Stromsenke)	:	0,9 kOhm
min. enable time/min. Freigabezeit	:	78 ms

As synchronization connection/ als Synchronisieranschluß

max. quantity of SONAR-BERO run in synchronism/ max. Anzahl der synchron laufenden SONAR-BERO	:	10
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Times/Zeiten

Frequency of operating cycles/ Schaltfrequenz	f	:	5 Hz
Time delay before availability/ Bereitschaftsverzug	tv	:	280 ms
Response time/Ansprechzeit		:	100 ms

Temperatures/Temperaturen

Rated temperature/ Bemessungstemperatur	Tu	:	25 Cel
Ambient temperature/ zul. Umgebungstemperatur	Ta	:	-25 ... +70 Cel
Storage temperature range/ zul. Lagertemperatur	Ts	:	-40 ... +85 Cel
Thermal drift (teach value)/ Temperaturdrift (Toleranzwert)			max. ± 2,5 %

Electrical protections/

Elektrische Schutzmaßnahmen, EMV

Reverse voltage protection/ Verpolungsschutz	:	built-in/eingebaut
Wire breakage protection/ Drahtbruchsicherheit	:	built-in/eingebaut
Inductive overvoltage/Induktionsschutz	:	built-in/eingebaut
False pulses/Einschaltfehlimpuls	:	suppressed/unterdrückt
IEC 61000-4-2		4 kV
IEC 61000-4-3		10 V/m
IEC 61000-4-4		2 kV
IEC 61000-4-6		10 V/m
EN 55011		Class B

Mechanical protections/

Mechanische Schutzmaßnahmen

Degree of protection/Schutzart	:	IP 67
Shock/Schockbeanspruchung	:	30 g; 11 ms duration/Einwirkdauer
Vibration/Schwingbeanspruchung	:	10 bis 55 Hz, 1 mm amplitude/Amplitude
Max. tightening torque/ max. Anzugsdrehmoment	:	60 Nm

**Indicators/Anzeigen**

: LED (yellow)/LED (gelb):
 Switching status: On: LED shines/
 Schaltzustand: Ein: LED leuchtet
 Misadjustment: LED flashes/
 Fehleinstellung: LED blinkt

**Mounting conditions/
Einbaubedingungen**

Mounting position/Einbaulage : any/beliebig
 Max. cable length/ : 300 m
 max. zulässige Leitungslänge

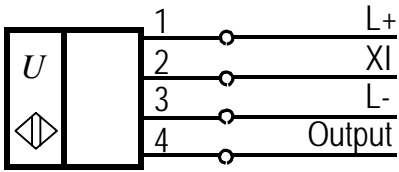
**Constructive characteristics/
Konstruktive Merkmale**

Housing material/Gehäuse : brass nickel-plated/Messing vernickelt
 Connection/Anschluß : Connector M12, 4-pole/Stecker M12, 4-polig
 Direction of radiation/Abstrahlrichtung : front side/stirnseitig
 Weight/Gewicht : 0,09 kg

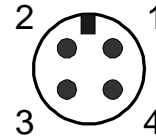
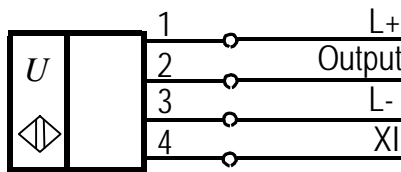


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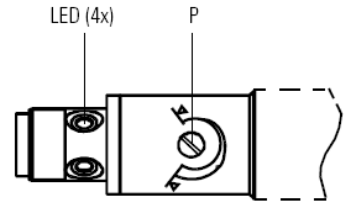
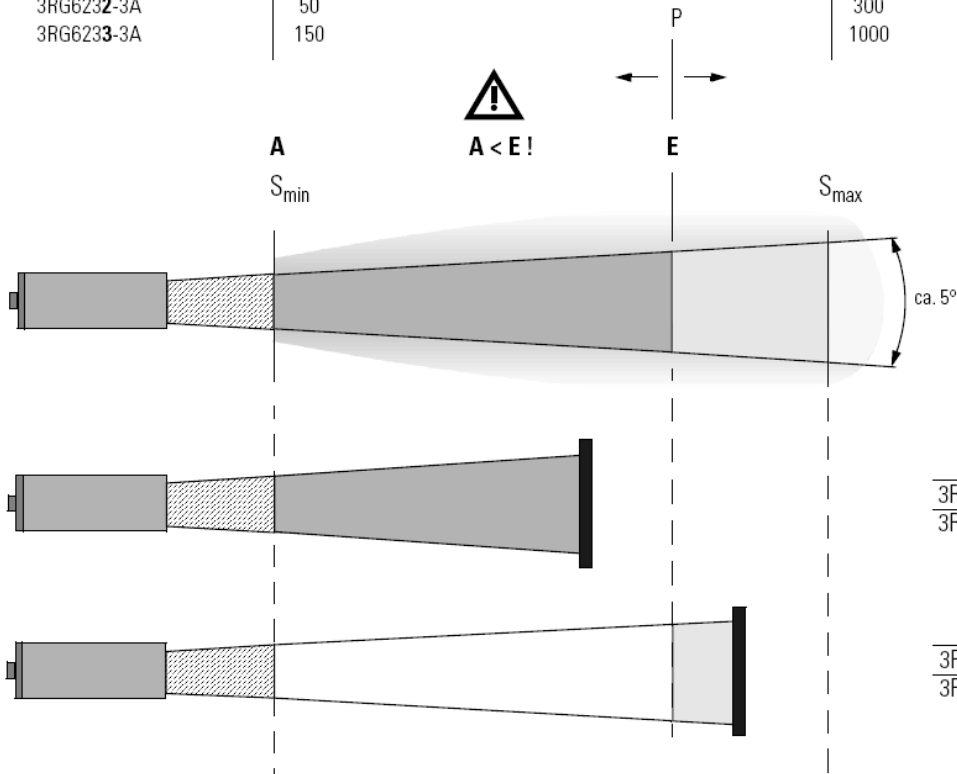
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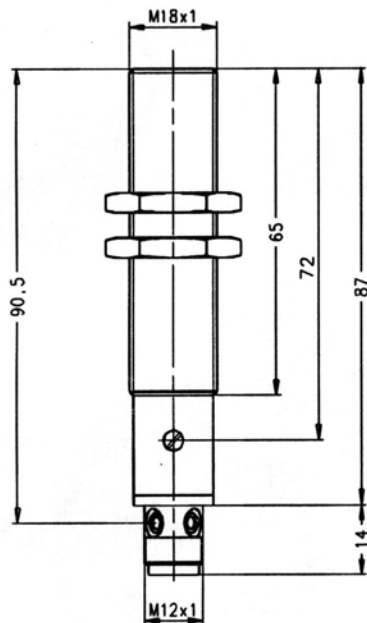


	S_{min} [mm]	S_{max} [mm]
3RG6232-3A	50	300
3RG6233-3A	150	1000



	S	LED
3RG623□-3□B	1	☀
3RG623□-3□A	0	⊗

	S	LED
3RG623□-3□B	0	⊗
3RG623□-3□A	1	☀





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