

3RG6115-3BF00-0XB7-PF ATEX Zone 2/22 V4A	Compact range M30 K3, 4...20 mA, normally open	Connector M12
3RG6115-3BE00-0XB7-PF ATEX Zone 2/22 V4A	Compact range M30 K3, 4...20 mA, normally closed	Connector M12

Size : cylindrical M30
Function : Diffuse

Operating distance

Sensing range : 400 ... 3000 mm
 Focusing range : 400... 3000 mm
 Adjustment : Potentiometer / SONPROG
 Standard target : 50 x 50 mm
 Repeat accuracy R : +/- 5 mm
 Switching hysteresis H : 20 mm
 Rated ultrasonic frequency : 120 kHz

Analog output

Output current : 4 ... 20 mA
 Working resistance : 0 ... 300 Ohm
 Characteristic : Rising
 Resolution : 12 Bit (4095 steps)
 Measuring rate : 50 ms (20 Hz)
 Accuracy : +/- 1,5 %

Power supply voltage

Rated operational voltage Ue : 24 V DC
 Operating voltage range UB : 12 ... 30 V DC incl. ripple content
 by reduction of operating voltage : 12 V < operating voltage < 20 V
 Detection : 20 % < reduced sensitivity < 0 %
 No-load supply current Io : max. 50 mA
 max. ripple content : 10 %

Output

Output : PNP
 Rated operational current Ie : max. 300 mA
 Output voltage drop Ud : max. 3V (300mA)
 Off-state current Ir : max. 0.01 mA
 Short circuit strength : built-in
 Overload withstand capability : built-in

Bidirectional connection „Release“

As release input

max. input voltage	:	30 V
max. L-Level (SONAR-BERO inactive)	:	0 ... 3 V
min. H-Level (SONAR-BERO active)	:	15 ... 30 V or high-resistance
Input resistance (current sink)	:	0.9 kOhm
min. enable time	:	150 ms

As synchronization connection

max. quantity of SONAR-BERO run in synchronism	:	10
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Times

Frequency of operating cycles	f	:	2 Hz
Time delay before availability	tv	:	280 ms

Response time	:	200 ms
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Temperatures

Rated temperature	Tu	:	25° C
Ambient temperature	Ta	:	-20 ... +40° C
Storage temperature range	Ts	:	-40 ... +85° C
Thermal drift (teach value)			max. ± 1.5 %

Electrical protections EMV

Reverse voltage protection	:	built-in
Wire breakage protection	:	built-in
Inductive overvoltage	:	built-in
False pulses	:	suppressed
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

ATEX Directive No.: 94/9/EC

Zone 2 according to II 3G

Zone 22 according to II 3D

Sign "X"

II 3G/D X with restrictions

CE  II 3G Ex nA II T6 X

CE  ...II 3D Ex tD A22 IP65 T60°C X

: see operation instructions

Mechanical protections

Degree of protection : IP 65
 Shock : 30 g; 11 ms duration
 Vibration : 10 to 55 Hz, 1 mm amplitude
 Max. tightening torque : 60 Nm

Indicators

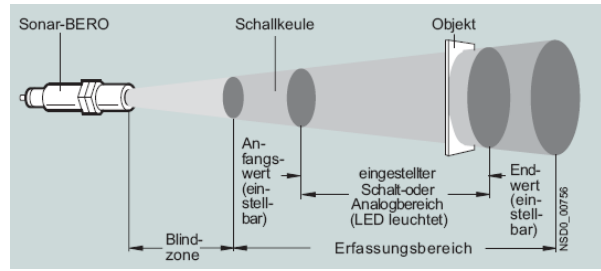
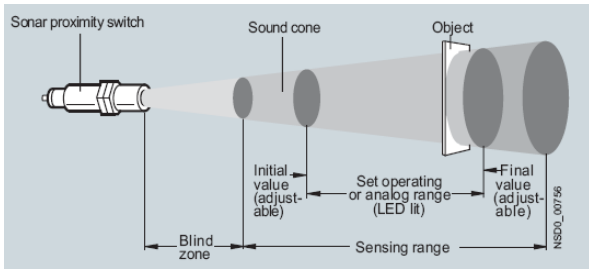
: LED (yellow):
 Switching status: On: LED shines
 Misadjustment: LED flashes

Mounting conditions

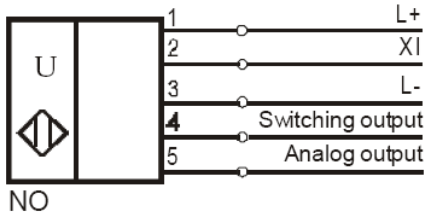
Mounting position : any
 Max. cable length : 300 m

Constructive characteristics

Housing material : Stainless steel V4A
 Ultrasonic transducer : Protective foil (Teflon like)
 Connection : Connector M12, 5-pole
 Direction of radiation : front side
 Weight : 0.34 kg



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