LASER distance sensor for use in Ex zones (0)*,1,2 and (20)*,21,22

LDG series



LDG-AAB-FCA-OF

- > Optical power limitation according to IEC 60079-28
- > Analog output 4 20mA

Analog output: Near 4mA

- > RS485 Com-Port
- > ToF (Time of Flight) system





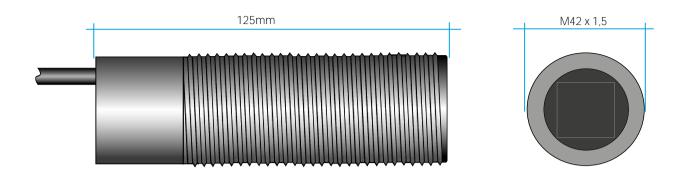
LDG-AAB-BCA-OF

Туре			
Range on reference surface	501'000mm (1m)	501'500mm (1,5m)	503'000mm (3m)
Analog output: Near 4mA	LDG-AAB-BBA-OF	LDG-AAH-CBF-OF	LDG-AAB-FBA-OF
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Range on reference surface	505'000mm (5m)	5010'000mm (10m)	5030'000mm (30m)

LDG-AAB-JBA-OF

General properties			
Type of protection gas, according to 2014/34/EU	II 2(1)G Ex db [op is Ga] IIA T4 Gb		
Type of protection dust, according to 2014/34/EU	II 2(1)D Ex tb [op is Da] IIIC T135°C Db IP67		
Can be used in Ex zones	Zonen (0)*,1,2 and (20)*,21,22		
Light frequency	Red 620 to 690nm,<=1mW		
Light source	Laser Class 2 / EN 60825-1		
Reaction speed	0,25ms to 4,5s		
Readiness delay	800 ms		
Supply voltage	24 VDC +-10%, Um = Max. 30 VDC		
Power consumption	max. 70 mA / 2,4W		
Analog output	4 - 20mA sinking // 500Ohm Max		
Measuring accuracy	+/- 1mm over the set measuring range		
Com-Port	RS485		
Measuring accuracy	+/- 1mm over the entire measuring range		
Working temperature range	-10°C +35°C		
Housing	M42 x 1.5, Steel 1.4404		
Resistance to vibration and shock	Vibration: 30g at 20Hz to 2kHz. Shock: 50g in each direction (X, Y, Z)		
Connection cable	7x AWG24, shielded, halogen-free, length: 6m, oil-resistant		
Output wiring	LDx-LASER Near-AmA 1 24VDC 3 Input LASER ON Output 4-20mA singking 2 OV 5 R5485 Factory-Port PE yellow/green Shield		

* Light may affect Ex zones 0 and 20



Series options (not all combinations possible)		
К:	Specific cable length up to max. 100m (e.g. K:10 = 10m connection cable)	
Customized presets	On request	
Other possible output/input functions		
None	None	

Accessories	
Accessories, all types	2 pcs. Nuts M42x 1.5

Optionales Zubehör		
Optional accessories, all types	MOXA converter UPORT 1130 kit with adapter and adjustment software	

Important note

The manufacturer's assembly and installation instructions must be observed. These can be found on the manufacturer's original data sheets and are available on request.