Baumer
Passion for Sensors

Ultrasonic proximity sensors

UR18.PA0.2-GP1J.9SF

Article number: 11200644

overview

- 20 … 1000 mm
- push-pull
- qTeach, line-Teach, IO-Link
- connector M12 5 pin
- -25 … 65 °C
- IP 69

Technical data

general data	
scanning range Sd	20 … 1000 mm
scanning range far limit Sde	20 … 1000 mm
version	IO-Link
hysteresis typ.	4 % Sde
repeat accuracy	< 0,5 mm
temperature drift	< 2 % Sde
power-up drift	compensated after 15 min.
response time ton	< 40 ms
release time toff	< 40 ms
sonic frequency	200 kHz
adjustment	qTeach, line-Teach, IO-Link
alignment aid	light indicator flashing
light indicator	LED yellow
power on indication	LED green
alignment measuring axis	< 2°
electrical data	
voltage supply range +Vs	12 … 30 VDC
current consumption typ.	35 mA
output circuit	push-pull
output current	< 100 mA
voltage drop Vd	< 3,5 VDC
residual ripple	< 10 % Vs
short circuit protection	yes
reverse polarity protection	yes
communications interface	
interface	IO-Link V1.1

communications interface	
baud rate	38,4 kBaud (COM 2)
cycle time	≥ 12 ms
process data length	32 Bit
process data structure	Bit 0 = SSC1 (distance) Bit 1 = SSC2 (distance) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 8-15 = scale factor Bit 16-47 = 32 Bit measurement
IO-Link port type	Class A
additional data	distance excess gain operating cycles operating hours boot cycles operating voltage device temperature histograms
adjustable parameters	time filters LED status indicators output logic output circuit counter beam forming function of pin 5 deactivate the sensor element Find Me function
mechanical data	
type	cylindrical threaded

Ultrasonic proximity sensors

UR18.PA0.2-GP1J.9SF

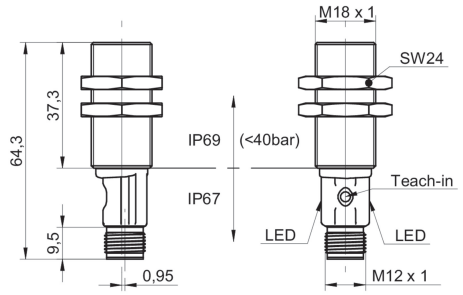
Article number: 11200644

Technical data

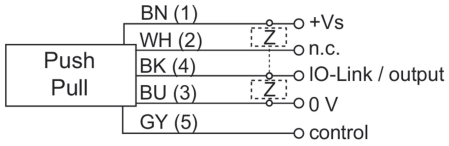
mechanical data	
housing material	stainless steel (V2A) / TR90
coating active face	PEEK
width / diameter	18 mm
height / length	64 mm
connection types	connector M12 5 pin

ambient conditions	
operating temperature	-25 … +65 °C
storage temperature	-40 … +75 °C
protection class	IP 69
protection class (connection)	IP 67

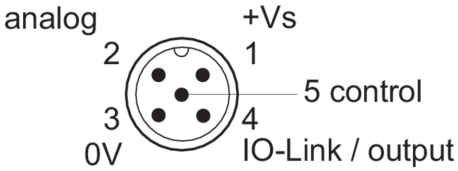
dimension drawing



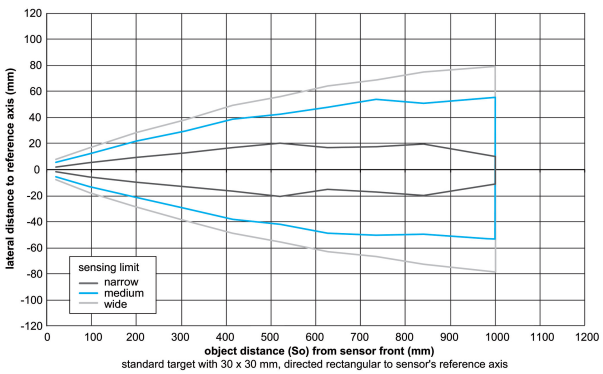
connection diagram



pin assignment



typical sonic cone profile



standard target with 30 x 30 mm, directed rectangular to sensor's reference axis