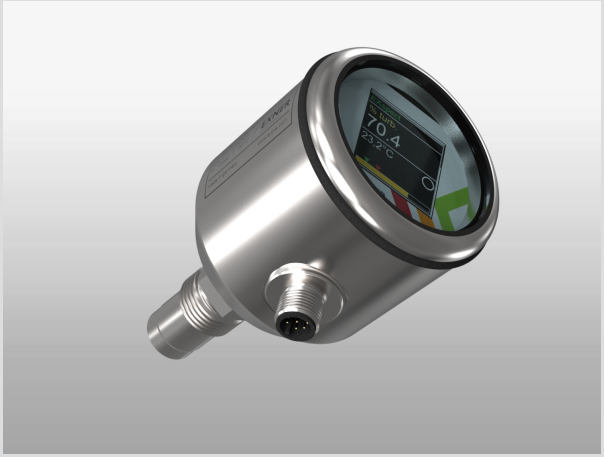
EXspect 271 NIR backscattering sensor in compact design



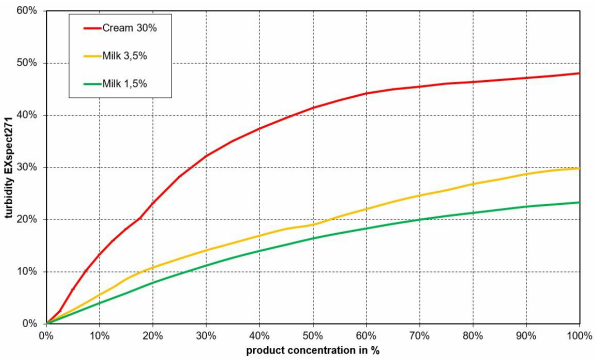
- Compact design with integrated amplifier and touch display
- %-turbidity or cusomer defined unit
- Durable sapphire lens
- Hygienic Design, CIP/SIP-capable
- LED light source guarantees a durable and stable signal
- Easy parameterization via display or software EXpert

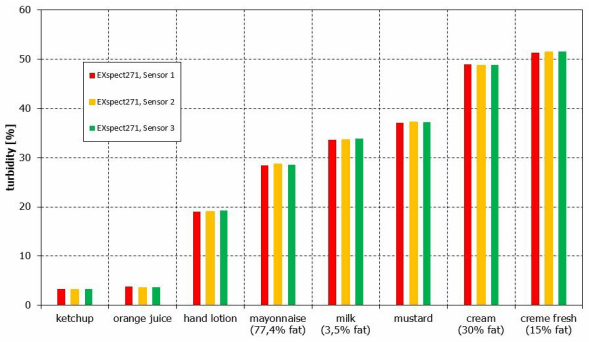
EXspect 271 is a high precisely compact NIR turbidity sensor monitoring production processes in the food industry, e.g. in dairies, as well as in many ranges of process and chemical applications and waste water.

Specifications

Measuring range max.	0-100 %
Resolution	0,1 %
Accuracy	± 1,5 % from measurement value
Reproducibility	≤ 1 % from final value
Wavelength	850 nm
Light source	LED
Material	Stainless steel 1.4435 (316L)
Surface	e-polished Ra <0,37 µm
Lens	Sapphire
Supply voltage	24 V DC
Contact	NO or NC configurable 150 mA
Input contact	zeroing
Process connection	Thread G1/2"
Process temperature	-10... 90 °C, 141 °C max. 2 hours (SIP cycle)
Process pressure	-1... 20 bar
Electrical connection	M12 connector 5-pin or 8-pin (digital parameterizable)
Cable length	2 m / 5 m
Interfaces	4 ... 20 mA with add. switching contact
Parameterization	Software EXpert
Protection class	IP69

Typical Measurements





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Validity: 01.01.2020/ Datasheet_en_210701

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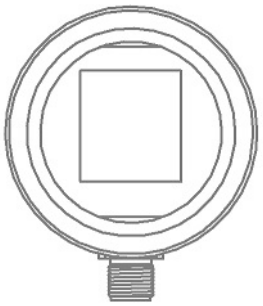
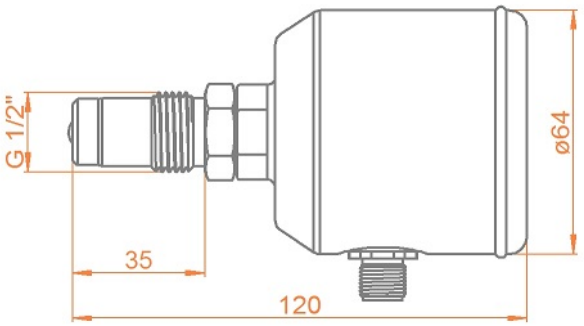




Ordercode

Code	Measuring range	Delivery
A	0...100% turbidity	3 weeks

Code	Material (wetted parts)	Delivery
4435	Stainless steel 1.4435 / 316L	3 weeks

Code	Sealing material (wetted sealings)	Delivery
MET	Metal sealing (without elastomer)	3 weeks

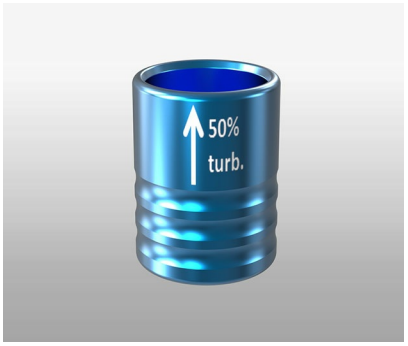
Code	Process connection	Delivery
G12	Thread G1/2"	3 weeks

Code	Interface	Delivery
AS	Analogue 4...20 mA / M12 5 pin	3 weeks
AD	Analogue 4...20 mA / digitally parameterizable / M12 8 pin	3 weeks

Code	Display	Delivery
1	With integrated display	3 weeks

Accessories

Weld-in socket and process adapter



EXcap 120 - Set of reference normals for in-field verification of measurements and calibration

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