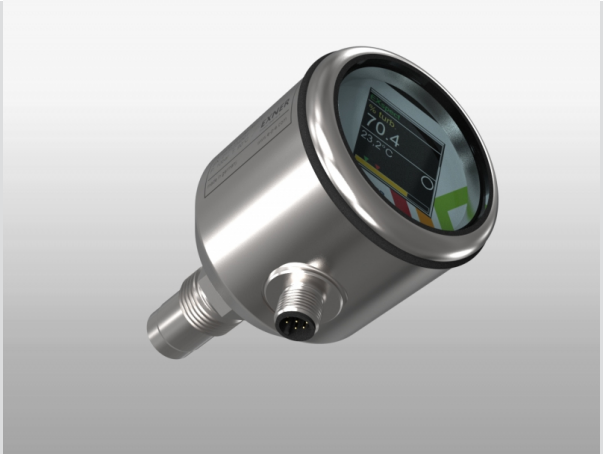
EXspect 271 NIR backscattering sensor in compact design



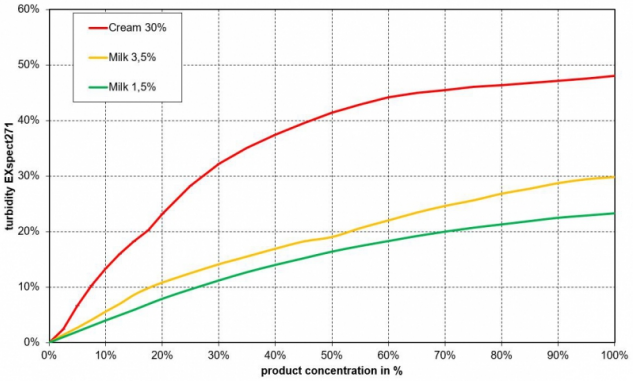
- Compact design with integrated amplifier and touch display
- %-turbidity or cusomer defined unit
- Durable sapphire lens
- Hygienic Design, CIP/SIP-capable
- LED light source guarantees a durable and stable signal
- Easy parameterization via display or software EXpert

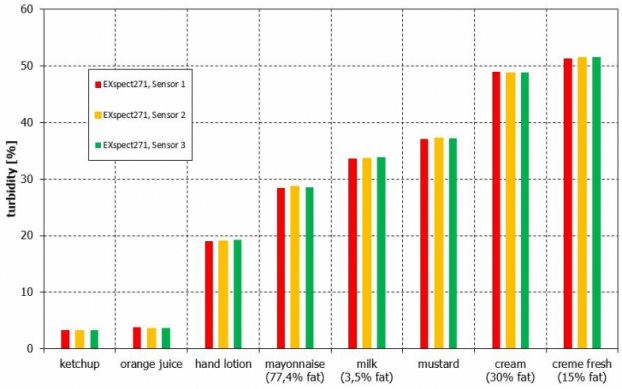
EXspect 271 is a highly accurate compact NIR turbidity sensor for monitoring production processes in thefood industry, e.g. in dairies, as well as in many areas of process applications with medium and hight turbidity.

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:	0...20 bar
Electrical connection:	M12 connector 5-pin or 8-pin (digital parameterizable)
Interfaces:	0/4...20 mA
Parameterization:	Software EXpert
Protection class:	IP69

Typical Measurements





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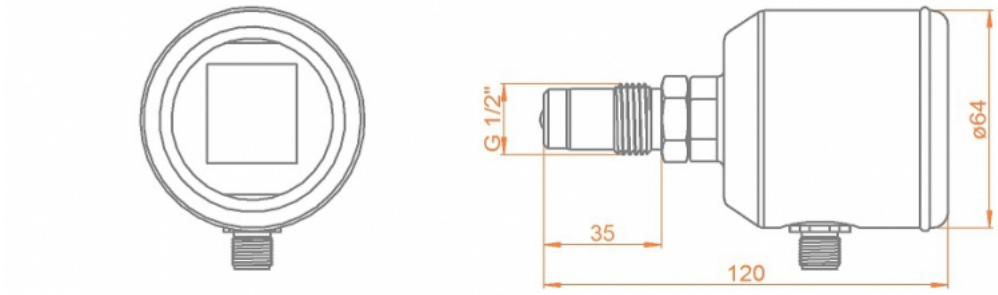


Order code

Code	Measuring range	Delivery time
A	0...100% turbidity	3 Weeks

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

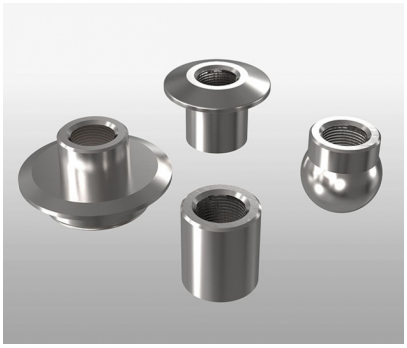
Code	Sealing material (wetted sealings)	Delivery time
MET	Metal sealing (without elastomer)	3 Weeks

Code	Process connection	Delivery time
G12	Thread G1/2"	3 Weeks

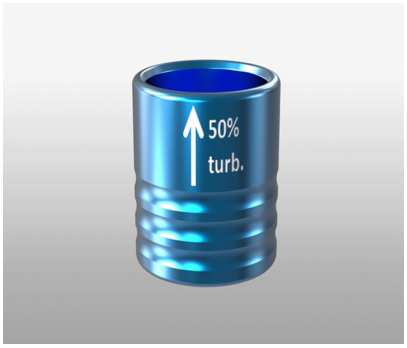
Code	Interface	Delivery time
AS	Analogue 4...20 mA / M12 5-pin	3 Weeks
AD	Analogue 4...20 mA / digitally parameterizable / M12 8-pin	3 Weeks

Code	Display	Delivery time
1	With integrated display	3 Weeks

Accessories



Weld-in socket and process adapters



Reference normal for verification - backscatter measurement