## TRITON-COL SERIES FOR LIQUIDS

Color and turbidity measurements are frequently used in many industrial processes across a variety of industries, most dominantly in Food & Beverage, Oil & Gas, and Chemical. BON's TELLUS-COL and TRITON-COL products for color measurement in solids and liquids are able to measure color in a number of ways.

- > The presence or absence of color in materials
- Subtle color variations in color spaces
- The exact determination of color accuracy in materials, including powders, granulates, pastes and other highly viscous samples.



- VIS spectral sensor integrated within probe shaft
- Automated self-cleaning and recalibration optional
- Robust design for industrial use

BLUE OCEAN NOVA®

- Hazardous area / Hygienic design certified
- Contact measurement (probe in touch with material)
- Flashed light source, guaranteeing an extended lifespan, little maintenance required
- Extremely low cost of operation

## SPECIFICATION FOR SENSOR FAMILY TRITON COL

Measurement method Measuring geometry Standard illuminants Standard colimetric observer Color spaces Distance metric

Color value specification Dimensions Weight Light source Spectral range Spectral resolution Repetition rate Repeatability Operating temperature Voltage Industry protocols

Process interface

Additional components Protection class EX-Certificate and/or hygiene certificate VIS - Transmission measurement (380 - 780 nm) 45°/0°, d/0° DIN 5033 (measurement area 3 - 5 mm) D65, others available 0° with L, others available XYZ, Yxy, ∆E CIE L\*a\*b\*, L\*u\*v\*, L\*C\*h  $\Delta$ E CIELab;  $\Delta$ L,  $\Delta$ a,  $\Delta$ b;  $\Delta$ L,  $\Delta$ u,  $\Delta$ v;  $\Delta$ L,  $\Delta$ C,  $\Delta$ h; Min/ Max, PASS/FAIL Hazen, APHA, contrast LRV - BS 8493:2008 Length 360 mm, diameter 114 mm, shaft 20 mm 1.5 kg flashed lamp, (life span 10<sup>9</sup> flashes) 380 nm - 780 nm < 10 nm @ 500 nm 2 sec < 0.05  $\Delta$ E CIELab 5 °C to 45 °C (without cooling mechanism) 24 VDC, max. 0,2 A 0...10 V; 4...20 mA, ProfiNet, Ethernet-IP, OPC, Field-Bus, Mod-Bus, Profi-Bus, WiFi, RS Minus 487 Lighthouse Probe, Tri-Clamp, ANSI, DIN-flange other options available Automated self-cleaning and recalibrating mechanism **IP67** Available

## INLINE COLOR MEASUREMENT ALTERNATIVE PROCESS INTERFACE OPTIONS



**TRI-CLAMP:** Tri-Clamp is the most ubiquitous connector to connect pipes and equipment components in the Food & Beverage industry as well as in the pharmaceutical industry. It is a quick-release connection and generally available for diameters between ½" and 4".



LIGHT HOUSE PROBE: Patented process interface with radial orientation of multiple measurement windows allows for automatic in-line cleaning and recalibration. All process interfaces have been designed to meet the harsh requirements of industrial production environments and are compliant with regulatory requirement (FDA)





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