OFFSHORE CRANE MONITORING SYSTEMS

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RaycoWylie
SYSTEMS
**DISPLAY (SAFE CAB)**

Size: 4.3" (16/9 ratio) / 7" (16/9 ratio) / 10.4" (4/3 ratio)  
IP Rating: IP67  
Operating Temperature: -20°C to +70°C  
Supply Voltage: 24 VDC  
Certification: BS EN 13852-1 / BS EN 13852-2

**CABLE GLANDS: TYPE M16**

Material: Nickel Plated Brass  
Contact sleeve: Nickel Plated Brass  
Operating temperature: From -40°C to +100°C  
Protection: IP68

**CABLE GLANDS: TYPE M20/M25**

Material: Brass  
Operating temperature: From -60°C to +80°C  
Protection: IP68  
Reference: IECEx

**EX DISPLAY (ZONE 1 AND 2)**

Stahl ET208 7" touch screen full colour panel mount display (optional enclosure)  
Size: 7" (15/9 ratio)  
IP rating: IP66 / IP54 (front/back) / IP65 back when mounted in optional enclosure  
Operating Temperature: -40°C to +60°C  
Supply voltage: 24 VDC (Ex e) 85-265 VAC, 48-62 Hz (Ex e)  
Certification: IECEx (alternative certification available upon request)

**CABLE GLANDS (ZONE 1 AND 2)**

Cable Gland: Type M16  
Material: Nickel Plated Brass  
Contact sleeve: Nickel Plated Brass  
Operating temperature: From -40°C to +100°C  
Protection: IP68

**TERMINATION UNIT (SAFE CAB)**

Material: Stainless Steel (Powder Coat Black Paint)  
Size: 460mm x 440mm x 180mm  
Supply voltage: 24 VDC (85-264 VAC, 47-63 Hz)

**LOAD LINK**

Material: Stainless Steel 17-4PH  
Non-linearity and hysteresis combined: < ±0.2% of full scale  
Operating Temperature: From -20°C to +80°C  
Output signal: 1.3 mV/V typical full scale  
Excitation voltage: 5 VDC  
Protection: IP67

**EX TERMINATION UNIT (ZONE 1 AND 2)**

Material: Cast Aluminium  
Size: 500mm x 285mm x 476mm  
Supply voltage: 24 VDC  
Certification: IECEx (alternative certification available upon request)

**A2B SWITCH (OVER HOIST LIMIT SWITCH)**

Material (switch): Stainless Steel  
Contact operation: Snap action  
Contact configuration: 1 N.O./1 N.C.  
Contact material: Silver

**LOAD PINS**

Material: Heat-Treated Stainless Steel 17-4PH  
Non-linearity and hysteresis combined: < ±0.2% of full scale  
Operating temperature: From -20°C to +80°C  
Output signal: 1.3 mV/V typical full scale  
Excitation voltage: 5 VDC  
Protection: IP67

**ANGLE SENSOR**

Material: Stainless Steel (Powder Coat Black Paint)  
Operating temperature: -40°C to +70°C  
Excitation voltage: 5 VDC

**DYNAMOMETERS**

Material: Stainless Steel/zinc plated steel  
Non-linearity and hysteresis combined: < ±0.2% of full scale  
Operating temperature: From -20°C to +80°C  
Output signal: 1.3 mV/V typical full scale  
Excitation voltage: 5 VDC
TYPICAL OFFSHORE CONFIGURATION

*System specific wiring diagram provided to suit application.

SAFE ZONE

HAZARDOUS ZONE

TYPE E34 150/250V FLAME RETARDANT

MATERIAL:
1. CONDUCTOR TINNED STRANDED COPPER CONDUCTOR (BS EN 60228:2005 class 5 flexible)
2. INSULATION OF EPR
3. SCREENING COLLECTIVE SCREEN, Aluminium BACK POLYESTER TAPE WITH TINNED COPPER STRANDED DRAIN WIRE
4. INNER SHEATH HALOGEN FREE
5. ARMOUR Galvanised STEEL WIRE BRAID
6. OUTER SHEATH CSP OUTER SHEATH

PROPERTIES:
FLAME-RETARDANCY TEST IN ACCORDANCE TO IEC (60) 332-3 CAT A
OXYGEN INDEX OF SHEATING: GREATER THAN 32%
H.C.L. EMISSION LESS THAN 5% AT 800°C
MELINEX TAPES BELOW AND ABOVE BRAID FOR EASE OF STRIPPING

REFERENCE:
BS 6883-1999
IEC (60)332-3 CAT A

*The information contained in this document is subject to change.