

GENERAL C&I SWITCHES TECHNICAL EVALUATION CRITERIA

1.1 MANDATORY TECHNICAL EVALUATION CRITERIA

The mandatory requirement will be evaluated on a **YES/NO** basis.

Table 1: Mandatory Technical Evaluation Criteria

Item	Mandatory Technical Criteria Description	Reference to Technical specification/Tender Returnables	Motivation for use of criteria
1	<p>Completed Schedule B in line with schedule A on Schedule A&B form for each Switch (Do not Tick or Cross, fill in actual text on Schedule B column of offered switch). The Switches must meet or exceed the specification in Schedule A.</p> <p>All items must be completed to be considered.</p>	List of stock items	To ensure that the supplier and Eskom knows which Switch will be supplied and meets the specification for each Switch.

1.2 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Each company will be evaluated based on the company's experience. Each switch will then be evaluated individually.

The minimum weighted threshold score required is 70%.

Table 2: Technical Evaluation for Company

No.	Weight (%)	Qualitative Technical Criteria Description	Evaluation Scoring Breakdown			
			0	2	4	5
1	50	Company experience Proof of 3 years verifiable relevant experience in supplying Switches stipulated in Schedule B. (NB: Proof will be at least 3 previous Purchase Orders with contact details of the company supplied, preferably in Eskom or similar industry)	Not provided/not relevant	Proof of 1 year experience in supplying Switches	Proof of 2 years' experience in supplying Switches	Proof of 3 years or more experience in supplying Switches
2	50	UNDERSTANDING OF REQUIRED SPARES Part numbers and data sheets supplied for each item (Note: part numbers meaning complete ordering part number, generic or incomplete part numbers will be considered as "not provided")	Not provided	Less than 75% of part numbers and data sheets supplied	More than 75% of part numbers and data sheets supplied	All part numbers and data sheets supplied

Table 3: Qualitative Technical Evaluation Criteria


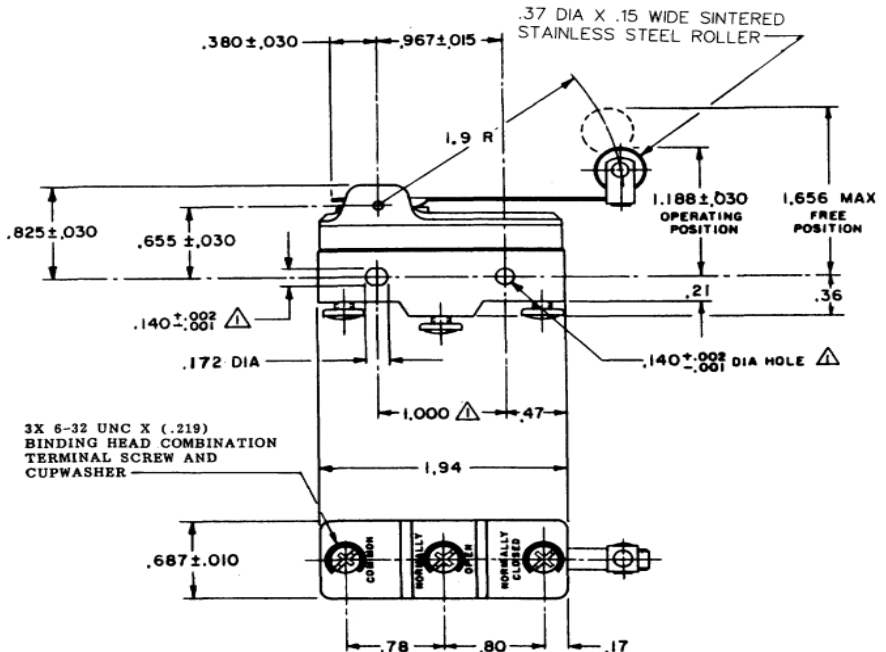

Score	(%)	Definition
5	100	COMPLIANT <ul style="list-style-type: none"> • Meet technical requirement(s) AND; • No foreseen technical risk(s) in meeting technical requirements.
4	80	COMPLIANT WITH ASSOCIATED QUALIFICATIONS Meet technical requirement(s) with; <ul style="list-style-type: none"> • Acceptable technical risk(s) AND/OR; • Acceptable exceptions AND/OR; • Acceptable conditions.
2	40	NON-COMPLIANT <ul style="list-style-type: none"> • Does not meet technical requirement(s) AND/OR; • Unacceptable technical risk(s) AND/OR; • Unacceptable exceptions AND/OR; • Unacceptable conditions.
0	0	TOTALLY DEFICIENT OR NON-RESPONSIVE
<p>Note 1: The scoring table does not allow for scoring of 1 and 3.</p> <p>Note 2: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy.</p>		

Schedule A/B

Material Number 0037161		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Inductive sensor	
Switching Function	NC	
Output Type	NAMUR	
Rated Operating Distance	10 mm	
Installation	flush	
Nominal Voltage	8.2 V	
Switching Frequency	0 – 200 Hz	
Switching State Indicator	all direction LED, yellow	
Connection Type	Cable, 6 mm, PVC, 0.75 mm ²	
Housing Material	Stainless steel 1.4305 / AISI 303	
Sensing Face	PBT	
Degree of Protection	IP66 / IP67	
Additional Info	Pepperl+Fuchs NCB10-30GM40-N0	
Drawing		


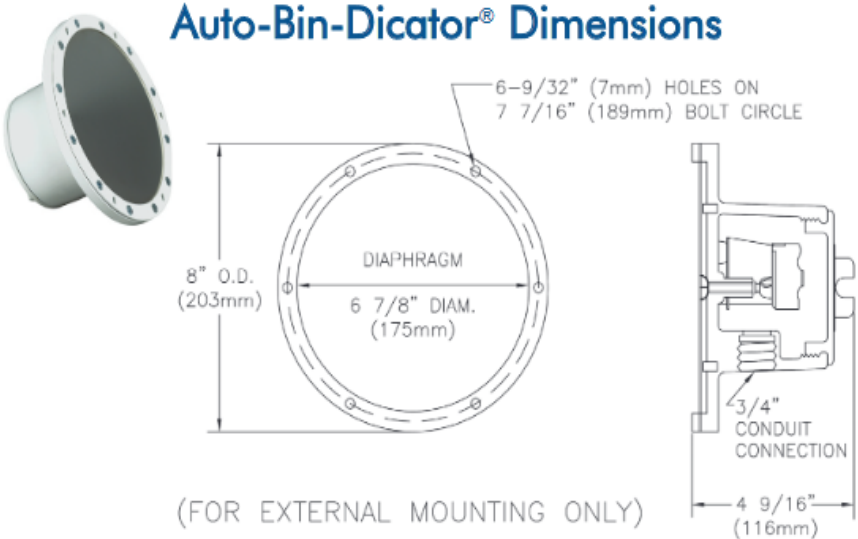
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Material Number 0120192		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Micro switch, SPDT	
Switching/Actuating type	Straight lever arm.	
Lever and roller dimension	48.26mm long arm and 9.4mm diameter roller	
Switch dimensions	49.3x29.9mm (Diagram B)	
Mounting holes	3.53 mm screw type	
Contact	SPDT	
Terminal connection	M3.5	
Contact Rating	20A 250VAC	
Diagram	Diagram A	
	 <p>Diagram B</p>  <p>NOTE -  - MOUNTING HOLES WILL ACCEPT PINS OR SCREWS OF .139 MAX DIA ON 1.000 ±.002 CENTERS</p>	

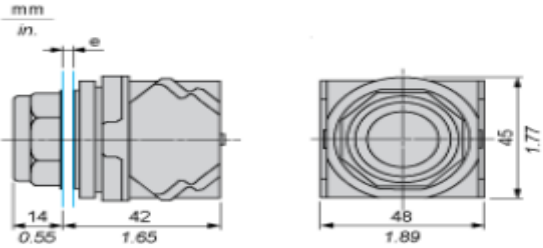

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Material Number 0120193		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Point level diaphragm	
Switch	SPDT, 15 A @ 250 VAC	
Diaphragm Material	Neoprene	
Housing Material	Cast aluminium	
Size	8 inch diameter	
Temperature Rating	82 degree C	
Electrical Connection	M20 X 1.5 cable entry, screw terminals	
Additional Info	Bindicator AB-R, LAD101701	
Diagram	 <p>AUTO-BIN-DICATOR®</p> <ul style="list-style-type: none"> • 8" diameter • Cast aluminum housing • Neoprene or SS diaphragm material • Medium duty <p>Auto-Bin-Dicator® Dimensions</p>  <p>6-9/32" (7mm) HOLES ON 7 7/16" (189mm) BOLT CIRCLE</p> <p>8" O.D. (203mm)</p> <p>DIAPHRAGM</p> <p>6 7/8" DIAM. (175mm)</p> <p>3/4" CONDUIT CONNECTION</p> <p>4 9/16" (116mm)</p> <p>(FOR EXTERNAL MOUNTING ONLY)</p>	


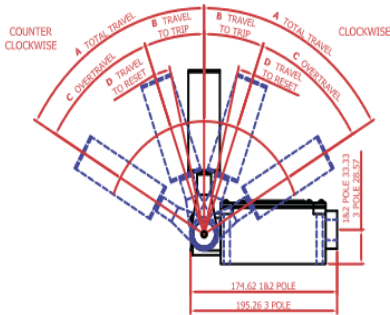
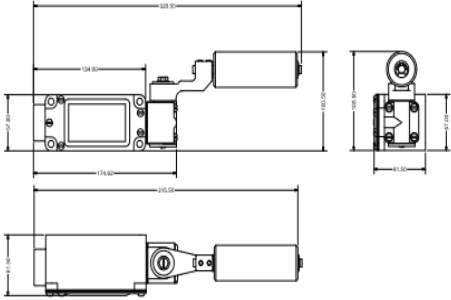
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Material Number 0120638		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Panel metal pushbutton Red	
Switching type	Momentary, spring return	
Operator Profile	Red, flush	
Switch dimensions	48mm (w) x 45mm (h) x 56mm (d) (Diagram A)	
Mounting	Panel mount 30mm dia, Panel thickness 1-6mm	
Contact	1NO + 1NC	
Terminal connection	Screw clamp terminals 1 x 0.22...2 x 1.5 mm ² conforming to IEC 60947-1	
Contact Rating	3A 250VAC	
Bezel material	Chromium plated/Metal	
Additional	No illumination required	
Info: replacement or same as original installed type Telemechanique/Schneider XB2-MA41 (Harmony 9001 K)		
Diagram	<p>Diagram A</p>  <p>Diagram B</p> 	

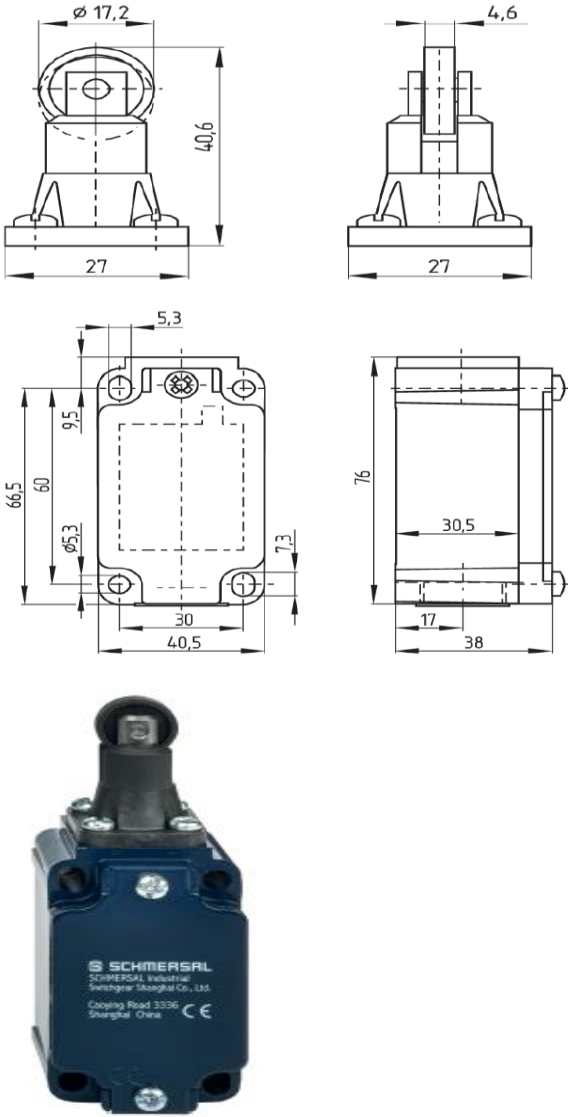
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Material Number 120658																	
TENDERER TO PLEASE COMPLETE SCHEDULE B																	
Criteria	Requirement (Schedule A)	Schedule B															
Type	Conveyor Belt Alignment Switch																
Switch	1NO/1NC																
Rating	30 A @ 220 VAC																
Protection	IP65																
Lever Operation	Spring Return																
Temperature Rating	80 degree C																
Electrical Connection	M20 X 1.5 cable entry, screw terminals																
Additional Info	Eaton Crouse-Hinds/Cutler-Hammer CHW93053																
Diagram	 <p>Mechanical Details:</p>  <table border="1"> <thead> <tr> <th></th><th>CHW93053</th><th>CHW93058</th></tr> </thead> <tbody> <tr> <td>A – Max</td><td>60°</td><td>65°</td></tr> <tr> <td>B – Trip</td><td>17°</td><td>40°</td></tr> <tr> <td>C – Overtravel</td><td>43°</td><td>25°</td></tr> <tr> <td>D – Reset</td><td>6°</td><td>35°</td></tr> </tbody> </table> <p>Dimensions (mm):</p> 			CHW93053	CHW93058	A – Max	60°	65°	B – Trip	17°	40°	C – Overtravel	43°	25°	D – Reset	6°	35°
	CHW93053	CHW93058															
A – Max	60°	65°															
B – Trip	17°	40°															
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D – Reset	6°	35°															

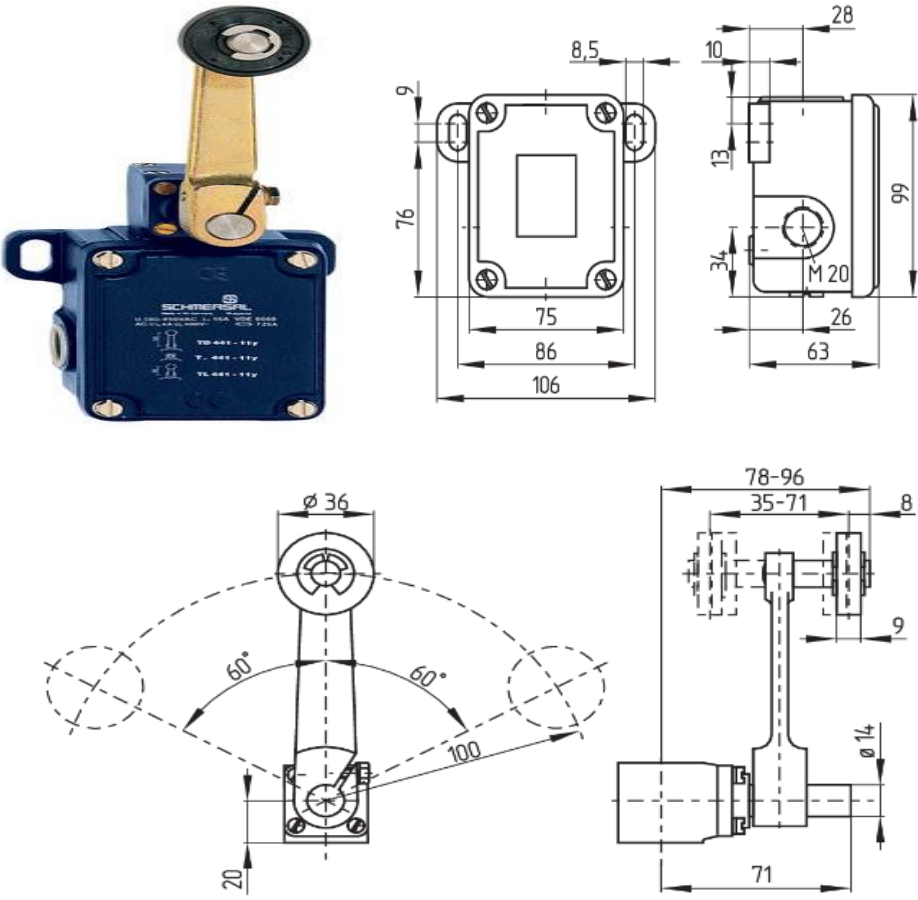
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Material Number 0120734		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Roller plunger switch	
Switching/Actuating	Roller plunger	
Switch dimensions	40.5mm (w) x 116.6mm (h) x 38mm (d)	
Cable entry	M20x1.5	
Contact	2NC contacts	
Terminal connection	Screw-type terminals	
Contact Rating	500 V, 4 A	
Ambient temp	-30 °C → +80 °C	
Additional Info	Material part number TR 335-02ZH, Schmersal	
Diagram		

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Material Number 0120844		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Limit Switch	
Switch	1NO/1NC	
Rating	14 A @ 400 VAC	
Enclosure material	Grey cast iron, galvanised	
Roller material	Plastic	
Actuating element	Roller lever	
Electrical Connection	M20 X 1.5 cable entry, screw terminals	
Protection	IP65	
Additional Info: Schmersal TD 441-11Y-M20		
Diagram		

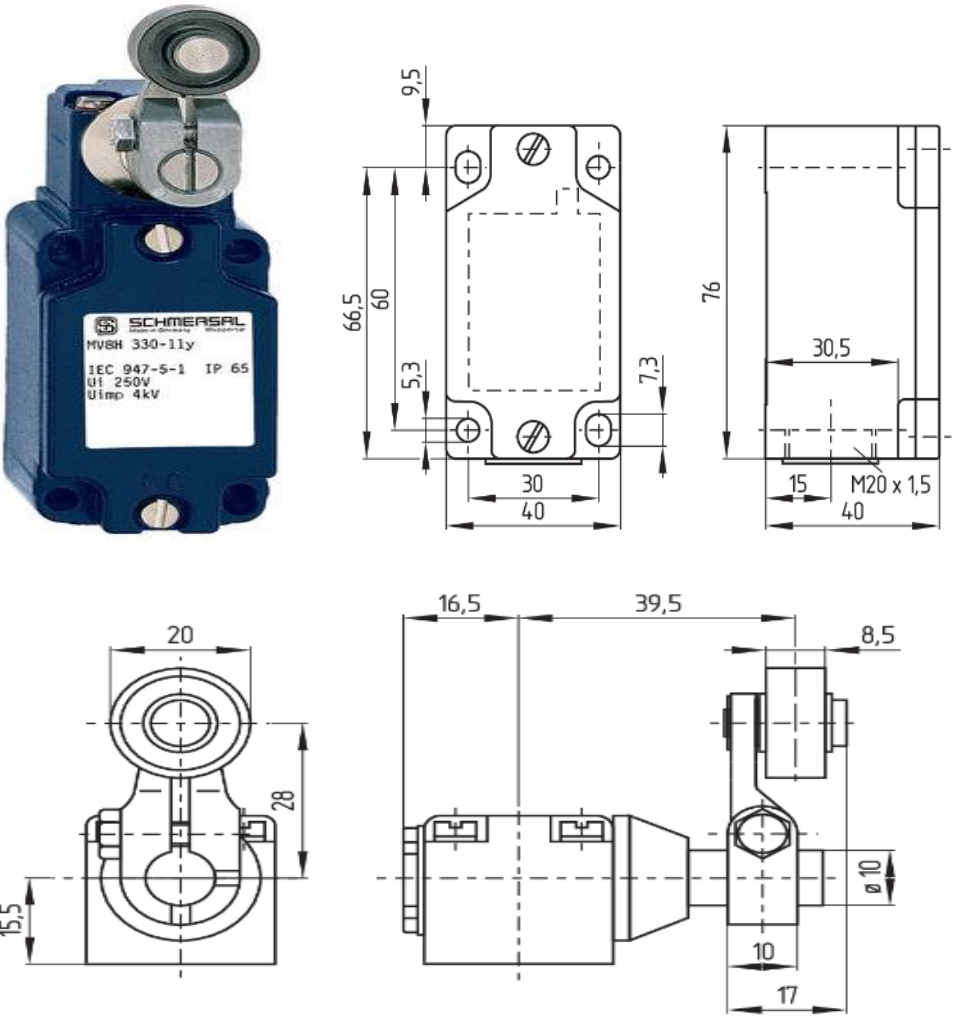
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Material Number 0120845		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Emergency Stop	
Switch	1NO/1NC	
Rating	230 VAC	
Head Style	Mushroom, red, turn to release	
Mounting	Complete control station (not only pushbutton), surface mount	
Size	Footprint 90mm x 100mm	
Protection	IP66	
Additional Info	Cutler HammerCHW91176G	
Diagram		

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Material Number 0120846		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Limit Switch	
Switch	1NO/1NC	
Rating	6 A @ 230 VAC	
Enclosure material	Light-alloy diecast, paint finish	
Actuating element	Roller lever	
Electrical Connection	M20 X 1.5 cable entry, screw terminals	
Protection	IP65	
Additional Info	Schmersal MV8H 330-11Y-M20	
Diagram		


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Material Number 0120849		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Limit Switch	
Switch	1NO/1NC	
Rating	10 A @ 240 VAC	
Electrical Connection	M20 X 1.5 cable entry, screw terminals	
Protection	IP66	
Additional Info	Rockwell Automation Limit Switch = 440S-S560010 Lever = 440S-S540014	
Diagram	<p>Technical drawing of a limit switch assembly showing dimensions in millimeters:</p> <ul style="list-style-type: none"> Front view: 58.7 Side view: 60.3, 4.8, 66.7, 128.5, 14.3, 23 Lever arm detail: 12.7, 6.3, 31.7, 41.3 Pt. no. 440S-S540014 	

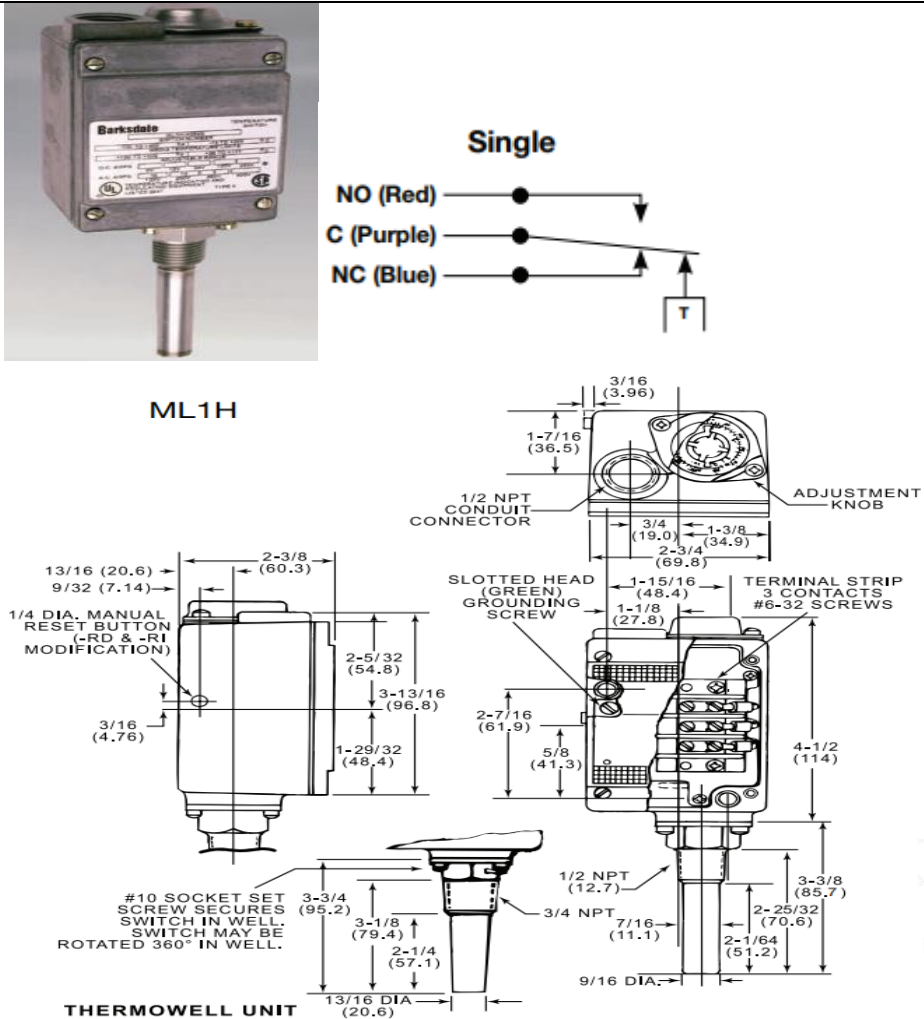
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Material Number 0120858		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Rotary head limit switch	
Switching/Actuating	Rotary head	
Switch dimensions	43mm (w) x 109mm (h) x 60mm (d)	
Cable entry	1 entry tapped for Pg 13.5 cable gland	
Contact	DPDT	
Terminal connection	Screw-type terminals	
Contact Rating	240 VAC, 3 A	
Ambient temp	-25 °C → +70 °C	
Additional Info	Material part number ZCKJ4104, Schneider	
Diagram		

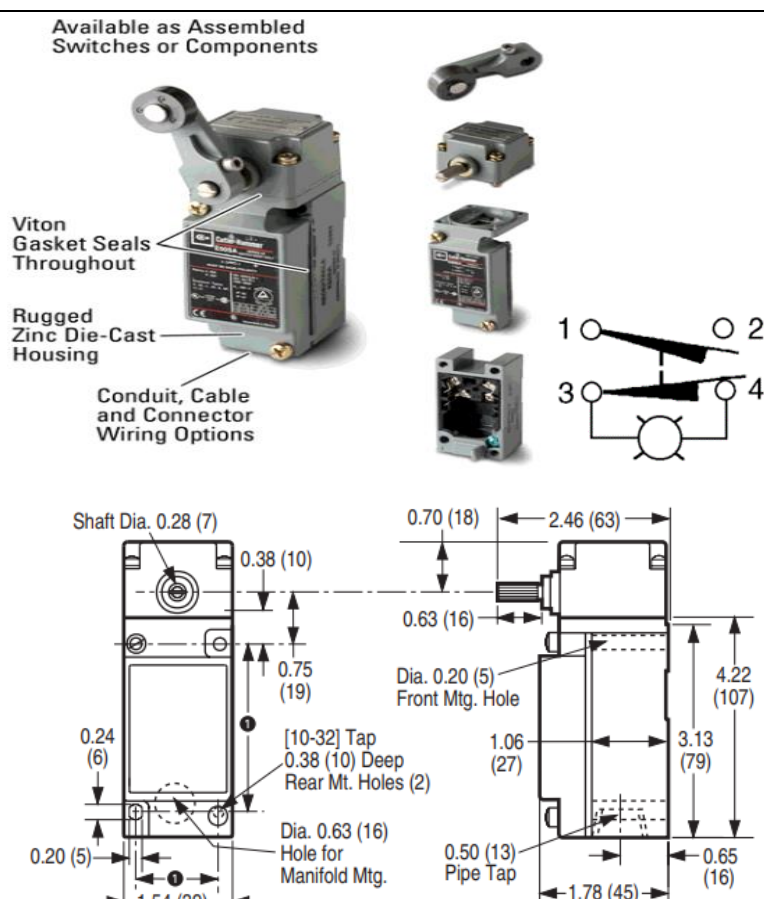
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Material Number 121114		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Temperature switch	
Switching/Actuating	Temperature	
Switch dimensions	69.8mm (w) x 200mm (h) x 60.3mm (d)	
Cable entry	½ NPT conduit connector	
Contact	1NO + 1NC	
Terminal connection	Screw-type terminals	
Contact Rating	480 VAC, 3 A	
Adjustable range	+66 °C → +232 °C	
Media temperature	-18 °C → +260 °C	
Additional Info	Material part number: MLIH-H454 Barksdale temp switch	
Diagram	 <p>ML1H</p> <p>Single</p> <p>NO (Red) —●—→ C (Purple) —●—→ NC (Blue) —●—→</p> <p>Dimensions (inches / millimeters):</p> <ul style="list-style-type: none"> Main Unit: 13/16 (20.6) DIA. MANUAL RESET BUTTON (RD & RI MODIFICATION), 3/16 (4.76) DIA. CONDUIT CONNECTOR, 2-3/8 (60.3) DIA. BODY, 2-5/32 (54.8) DIA. THERMOWELL, 3-13/16 (96.8) DIA. THERMOWELL, 1-29/32 (48.4) DIA. THERMOWELL. Thermowell Unit: 3-3/4 (95.2) DIA. THERMOWELL, 3-1/8 (79.4) DIA. THERMOWELL, 2-1/4 (57.1) DIA. THERMOWELL, 13/16 DIA (20.6) DIA. THERMOWELL. Terminal Block: 1/2 NPT CONDUIT CONNECTOR, 3/4 (19.0) DIA. CONDUIT CONNECTOR, 1-3/8 (34.9) DIA. CONDUIT CONNECTOR, 2-3/4 (69.8) DIA. CONDUIT CONNECTOR, 1-15/16 (48.4) DIA. CONDUIT CONNECTOR, 1-1/8 (27.8) DIA. CONDUIT CONNECTOR, 2-7/16 (61.9) DIA. CONDUIT CONNECTOR, 5/8 (41.3) DIA. CONDUIT CONNECTOR, 1/2 NPT (12.7) DIA. CONDUIT CONNECTOR, 3/4 NPT (11.1) DIA. CONDUIT CONNECTOR, 7/16 (11.1) DIA. CONDUIT CONNECTOR, 2-25/32 (70.6) DIA. CONDUIT CONNECTOR, 2-1/64 (51.2) DIA. CONDUIT CONNECTOR, 9/16 DIA. CONDUIT CONNECTOR, 4-1/2 (114) DIA. CONDUIT CONNECTOR, 3-3/8 (85.7) DIA. CONDUIT CONNECTOR, 3/4 (19.0) DIA. CONDUIT CONNECTOR, 1-15/16 (48.4) DIA. CONDUIT CONNECTOR, 1-1/8 (27.8) DIA. CONDUIT CONNECTOR, 2-7/16 (61.9) DIA. CONDUIT CONNECTOR, 5/8 (41.3) DIA. CONDUIT CONNECTOR, 1/2 NPT (12.7) DIA. CONDUIT CONNECTOR, 3/4 NPT (11.1) DIA. CONDUIT CONNECTOR, 7/16 (11.1) DIA. CONDUIT CONNECTOR, 2-25/32 (70.6) DIA. CONDUIT CONNECTOR, 2-1/64 (51.2) DIA. CONDUIT CONNECTOR, 9/16 DIA. CONDUIT CONNECTOR. 	

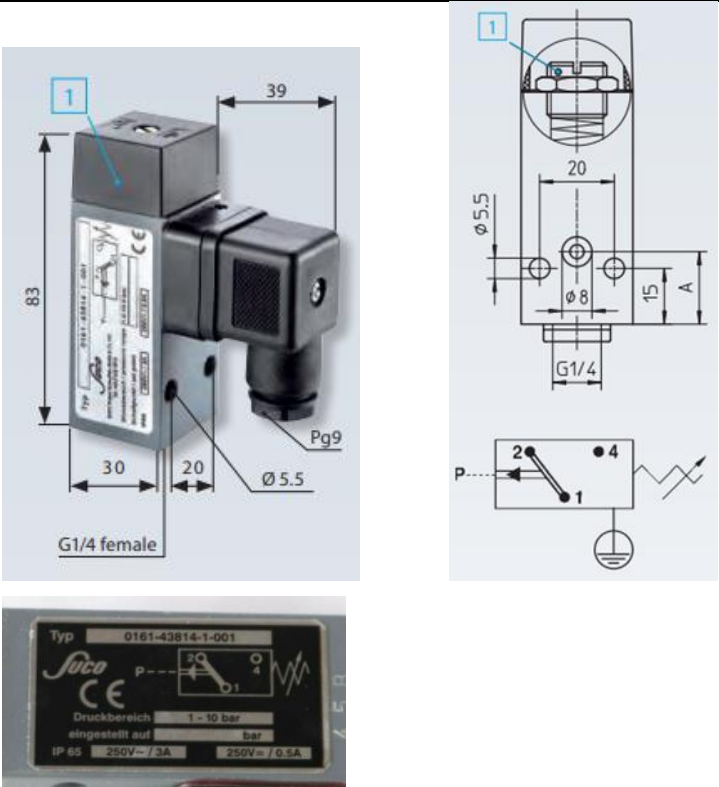
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Material Number 121186		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Roller lever switch	
Switching/Actuating	Roller lever	
Switch dimensions	63mm (w) x 125mm (h) x 39mm (d)	
Cable entry	1/2 in NPT or 20 mm threading	
Contact	1NO + 1NC	
Terminal connection	Screw-type terminals	
Contact Rating	600 V, 12 A	
Ambient temp	-12 °C → +94 °C	
Additional Info	E50 Modular Plug-In Limit Switch, EATON	
Diagram	<p>Available as Assembled Switches or Components</p>  <p>The diagram illustrates the E50 Modular Plug-In Limit Switch in various configurations and provides detailed dimensions in inches and millimeters. Key features include:</p> <ul style="list-style-type: none"> Viton Gasket Seals Throughout: Indicated for the main assembly. Rugged Zinc Die-Cast Housing: The main body of the switch. Conduit, Cable and Connector Wiring Options: Shown as separate components. Dimensions: <ul style="list-style-type: none"> Shaft Dia. 0.28 (7) 0.38 (10) 0.75 (19) 0.24 (6) 0.20 (5) 1.54 (39) 0.70 (18) 2.46 (63) 0.63 (16) Dia. 0.20 (5) Front Mtg. Hole 1.06 (27) 3.13 (79) 4.22 (107) 0.50 (13) Pipe Tap 1.78 (45) 0.65 (16) [10-32] Tap 0.38 (10) Deep Rear Mt. Holes (2) Dia. 0.63 (16) Hole for Manifold Mtg. Wiring Diagram: Shows a schematic with terminals 1, 2, 3, and 4, including a common terminal and a normally closed contact. 	


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Material Number 0121275		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Pressure switch	
Max pressure	200 Bar	
Adjustable range	1 to 10 Bar	
Hysteresis range	About 10 - 30 % (adjustable by factory)	
Process connection	G 1/4 - internal thread	
IP Rating	IP65 with attached socket device	
Contacts	1NO 1NC	
Contact Rating	250VAC, 5 A	
Cable Entry	Socket device	
Switch body height	83 mm	
Switch body depth	30 mm	
Switch body width	30 mm	
Mounting holes	5.5 mm diameter	
Measured medium	Oil	
Additional Info	SUCO 0161-43814-1-001 DIAPHRAGM PRESSURE SWITCH	
Diagram		


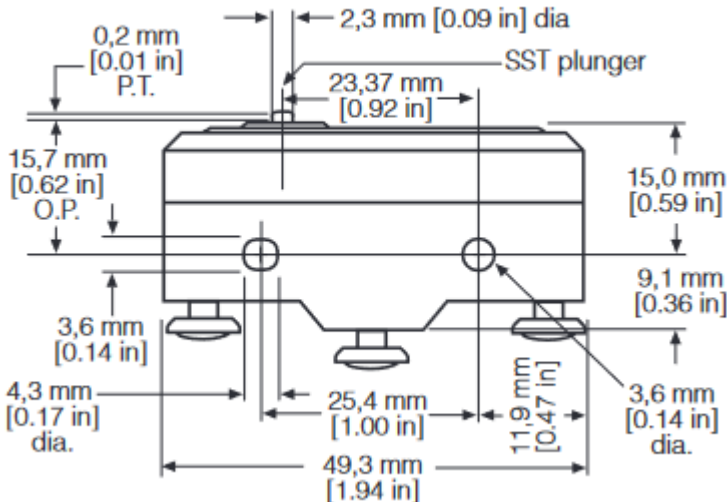
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Material Number 0121651		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Pressure switch	
P max	10 bar	
Adjustable range	0.4 to 4 bar	
Process connection	32 MM FNPT	
IP Rating	IP65	
Contacts	1NO 1NC	
Contact Rating	250VAC, 5 A	
Additional Info	PB17A/RE10A42 PRESSURE SWITCH, Asco Tripoint	
Diagram		


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Material Number 0121652		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Micro Switch	
Switch	SPDT	
Rating	15 A @ 250 VAC	
Actuator	Plunger	
Mounting	Chassis	
Additional Info	Honeywell BZ-2R-A2	
Diagram	<p>BZ/BA type</p>  <p>BZ/BM Series: Pin plunger</p>  <p>Technical drawing dimensions (mm [inches]):</p> <ul style="list-style-type: none"> Top pin: 0,2 mm [0.01 in] P.T. Top pin diameter: 2,3 mm [0.09 in] dia Top pin length: 23,37 mm [0.92 in] Top pin material: SST plunger Top pin offset: 15,7 mm [0.62 in] O.P. Top pin offset: 15,0 mm [0.59 in] Top pin offset: 9,1 mm [0.36 in] Top pin offset: 3,6 mm [0.14 in] dia. Top pin offset: 4,3 mm [0.17 in] dia. Top pin offset: 25,4 mm [1.00 in] Top pin offset: 11,9 mm [0.47 in] Top pin offset: 3,6 mm [0.14 in] dia. Top pin offset: 49,3 mm [1.94 in] 	

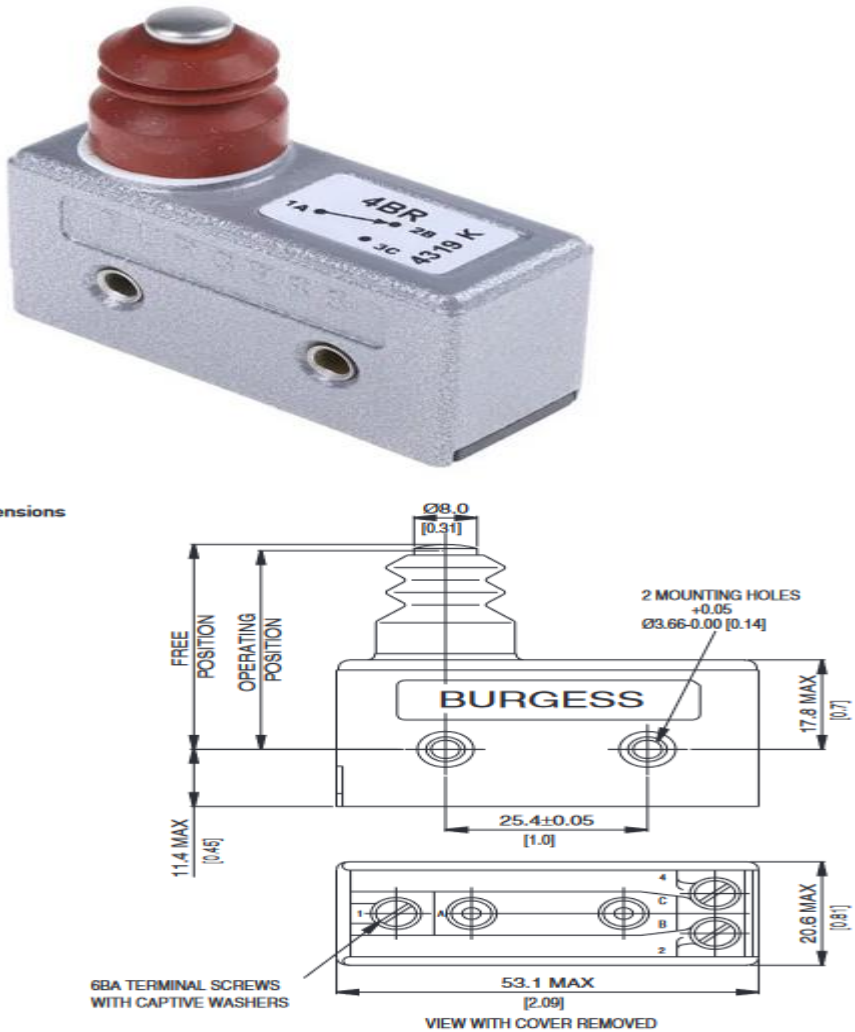
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Material Number 0121690		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Pressure switch	
P max	10 bar	
Adjustable range	0.4 to 4 bar	
Process connection	11 MM FNPT	
IP Rating	IP65	
Contacts	1NO 1NC	
Contact Rating	250VAC, 5 A	
Additional Info	PB17A/RE10A21PRESSURE SWITCH, Asco Tripoint	
Diagram		

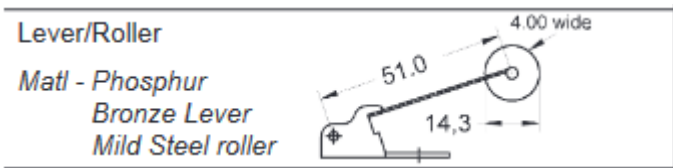
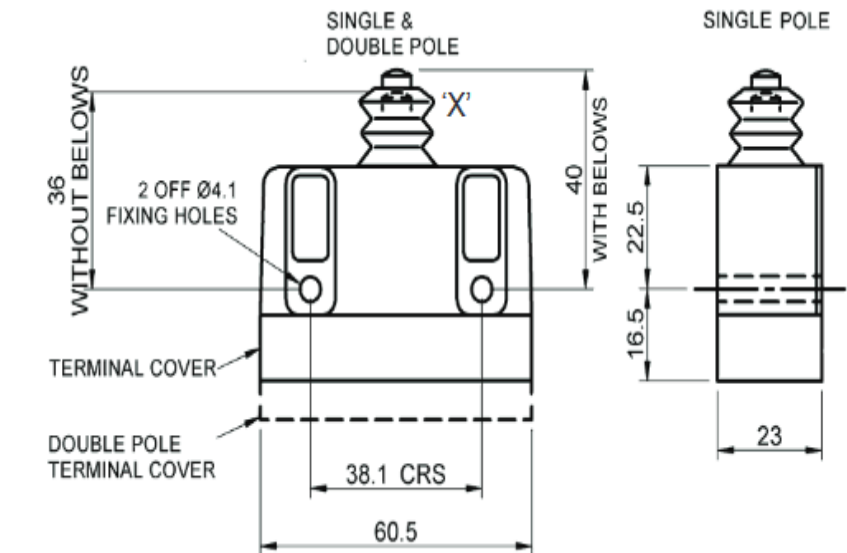
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Material Number 0121692		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Micro Switch	
Switch	Single pole change-over	
Rating	10 A @ 250 VAC	
Housing	Zinc alloy	
Plunger	Stainless Steel	
Actuator	Plunger	
Protection	IP54	
Terminals	Removable screw terminals, insulated cover plate	
Additional Info	Saia-Burgess 4BR	SP-NO/NC Plunger Microswitch
Diagram	 <p>Dimensions</p> <p>Top View Dimensions:</p> <ul style="list-style-type: none"> Plunger Diameter: $\varnothing 8.0$ [0.31] Body Width: 25.4 ± 0.05 [1.0] Mounting Hole Diameter: $\varnothing 3.66 - 0.00$ [0.14] Body Height: 17.8 MAX [0.7] Terminal Hole Spacing: 11.4 MAX [0.45] Terminal Hole Diameter: $\varnothing 3.66 - 0.00$ [0.14] <p>Side View Dimensions:</p> <ul style="list-style-type: none"> Terminal Hole Spacing: 53.1 MAX [2.09] Terminal Hole Diameter: $\varnothing 3.66 - 0.00$ [0.14] Terminal Hole Depth: 20.6 MAX [0.81] <p>Other Labels:</p> <ul style="list-style-type: none"> FREE POSITION OPERATING POSITION BURGESS 2 MOUNTING HOLES $\varnothing 3.66 - 0.00$ [0.14] 6BA TERMINAL SCREWS WITH CAPTIVE WASHERS VIEW WITH COVER REMOVED 	

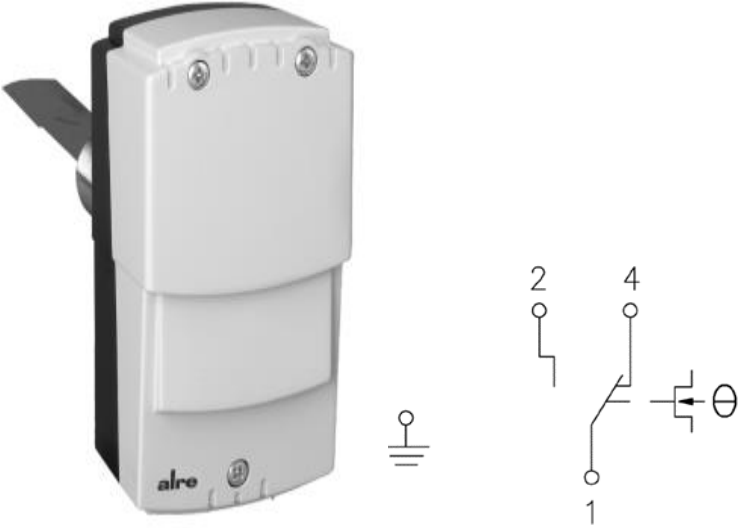
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Material Number 121694		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Micro switch, single pole snap action	
Switching/Actuating type	Lever with roller (diagram A)	
Lever and roller dimension	Arm length 51mm, roller 4mm (diagram A)	
Switch dimensions	60.5mm x 39mm (Diagram B)	
Mounting holes	4.1mmdia, 38mm apart, 40mm from top (Diagram B)	
Contact	1NO	
Terminal connection	M3.5 (Max cable 2.5mm ²)	
Contact Rating	6A 600VAC	
Additional Info	replacement or same as original installed type Craig & Derricott type I-Press A2	
Diagram	<p>Diagram A</p>  <p>Lever/Roller Matl - Phosphur Bronze Lever Mild Steel roller</p> <p>Diagram B</p>  <p>SINGLE & DOUBLE POLE</p> <p>SINGLE POLE</p> <p>36 WITHOUT BELOWS</p> <p>2 OFF Ø4.1 FIXING HOLES</p> <p>40 WITH BELOWS</p> <p>TERMINAL COVER</p> <p>DOUBLE POLE TERMINAL COVER</p> <p>38.1 CRS</p> <p>60.5</p> <p>22.5</p> <p>16.5</p> <p>23</p>	



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Material Number 121702		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Flow switch, paddle type	
Max pressure	5 Bar	
Hysteresis range	Depends on the pipe diameter	
Process connection	1-1/4 IN-NPT	
IP Rating	IP67	
Contacts	1NO 1NC	
Contact Rating	250VAC, 5 A	
Cable Entry	Whitworth pipe thread R1"	
Switch body height	130 mm	
Switch body depth	67 mm	
Switch body width	71 mm	
Measured medium	Oil	
Additional	ALRE-IT JSF-1E flow switch	
Diagram		

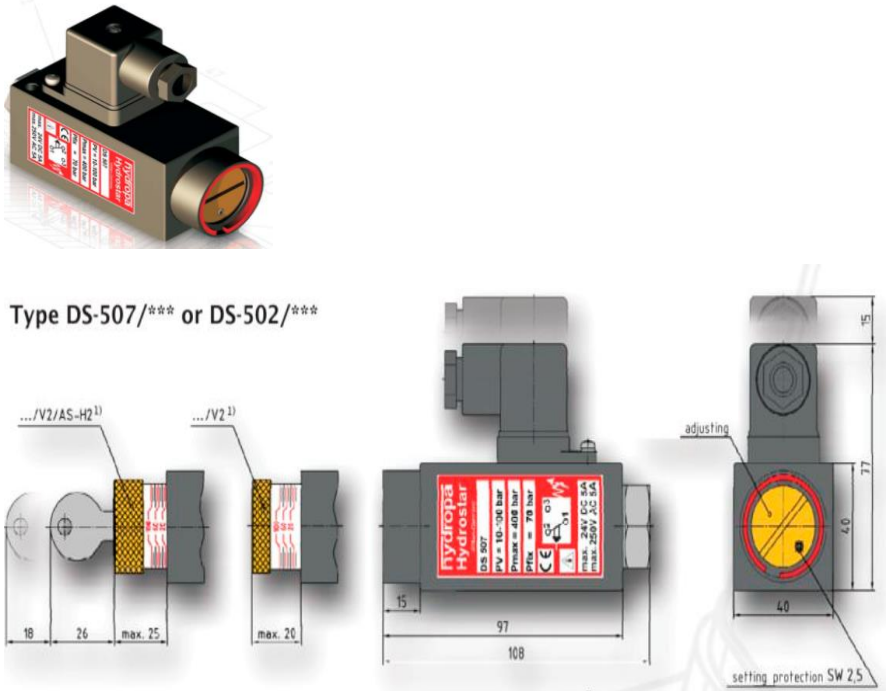
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Material Number 0121707		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Rotary switch	
Switching/Actuating	Rotary	
Switch dimensions	48mm (w) x 48mm (h)	
Cable entry	Open terminals	
Contact	6PDT	
Terminal connection	Screw-type terminals	
Contact Rating	24 V, 20 A	
Additional info	Must come with hand lever part as in picture below	
Info: CA10A370-600E, Kraus-and-Naimer		
Diagram	<div><div><div><div><div>1</div><div>5</div><div>3</div><div>7</div><div>9</div><div>13</div><div>11</div><div>15</div><div>17</div><div>21</div><div>19</div><div>23</div></div><div><div>6-2</div><div>8-4</div><div>14-10</div><div>16-12</div><div>22-18</div><div>24-20</div></div></div></div><div></div></div>	

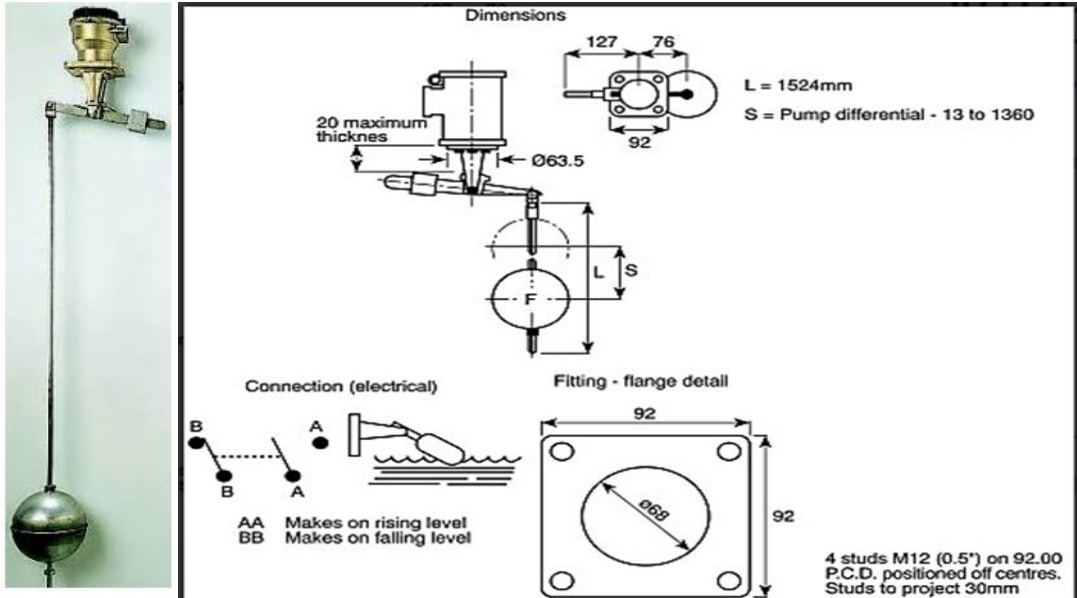
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Material Number 0121718		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Differential Pressure switch	
Max pressure	200 Bar	
Adjustable range	5 to 55 Bar	
Hysteresis range	7-12% at the final value at a set pressure of approx. 60-70% of the max. adjustable switching pressure.	
Process connection	FNPT ½ In	
IP Rating	IP65	
Contacts	1NO 1NC	
Contact Rating	250VAC, 3 A	
Cable Entry	Socket device	
Switch body height	108 mm	
Switch body depth	40 mm	
Switch body width	30 mm	
Mounting holes	5.5 mm diameter	
Measured medium	Oil	
Additional	Hydropa DS 502 pressure switch	
Diagram	 <p>Type DS-507/** or DS-502/**</p>	


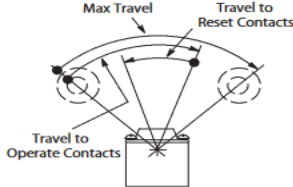
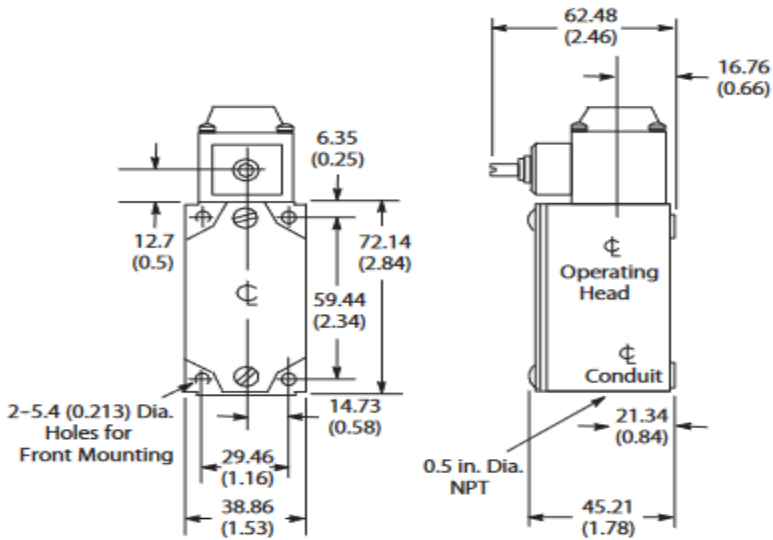
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Material Number 121730		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Vertical magnet float switch	
IP Rating	IP66	
Contacts	1NO +1NC SPST snap action	
Contact Rating	>220VAC >1A (Higher or equal)	
Cable Entry	M20x1.5-6H	
Switch housing Dimension	From flange: 125mm(h) x 103mm(w) – Dimensions are not critical	
Float dimensions	129mm (round sphere)	
Measured medium	Water (SG of 1)	
Rod Length	1524mm (to be cut to size in plant)	
Mounting flange	92mm x 92mm with 4xM12 studs	
Body material	Aluminium Bronze	
Float and Rod Material	316SST	
Additional info	replacement or same as original installed type Delta Mobrey S01DB/F21/1	
Diagram	 <p>Dimensions</p> <p>127 76 92</p> <p>L = 1524mm</p> <p>S = Pump differential - 13 to 1360</p> <p>20 maximum thickness</p> <p>Ø63.5</p> <p>Connection (electrical)</p> <p>AA BB</p> <p>Makes on rising level</p> <p>Makes on falling level</p> <p>Fitting - flange detail</p> <p>92 92</p> <p>4 studs M12 (0.5") on 92.00 P.C.D. positioned off centres. Studs to project 30mm</p>	

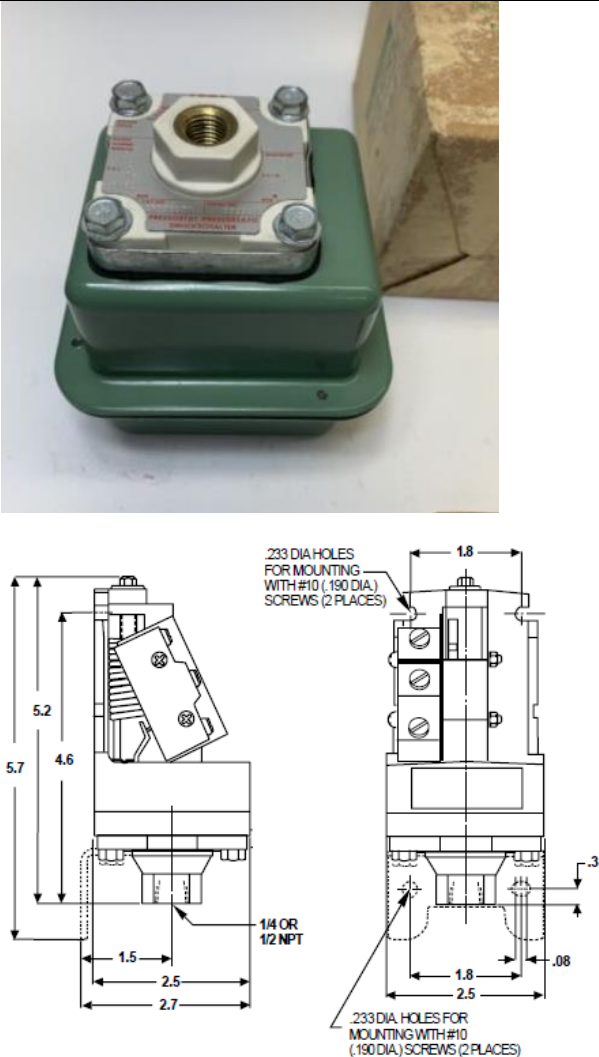
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Material Number 121737		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Maintained contact – Snap action	
IP Rating	IP67	
Contacts	1NO 1NC	
Contact Rating	>120VAC >1A (higher or equal)	
Cable Entry	½" NPT	
Switch body height	72.14mm	
Switch body depth	45.21mm	
Switch body width	38.16mm	
Mounting holes	5.4mmdia 59.44mm(refer to pic)	
Lever		
Additional info	replacement or same as original installed type Allen Bradley 802T-AM6USD	
Diagram	<p>Range of Operation</p>  <p>Maintained Contact Models</p> <p>Approximate Dimensions [mm (in.)]</p> 	


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Material Number 0121962		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Pressure switch	
P max	60 psig	
Adjustable range	0 to 9 psig	
Process connection	½ NPT	
IP Rating	IP65	
Contacts	1NO 1NC	
Contact Rating	250VAC, 5 A	
Additional Info	PB31A PRESSURE SWITCH, Asco Tripoint	
Diagram		

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Material Number 0121963		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Pressure switch	
P max	5000 psig	
Adjustable range	160 to 1650 psig	
Process connection	½ NPT	
IP Rating	IP65	
Contacts	1NO 1NC	
Contact Rating	250VAC, 5 A	
Additional Info	PB21A PRESSURE SWITCH, Asco Tripoint	
Diagram		


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Material Number 0121965		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Pressure switch	
Switching/Actuating	Pressure	
Pressure range	0-274 mbar	
Contact	1NO + 1NC	
Terminal connection	Screw-type terminals	
Contact Rating	250 VAC, 5 A	
Additional Info	Text say it's temperature switch	
Material part number: PB47A, ASCO pressure switch		
Diagram		

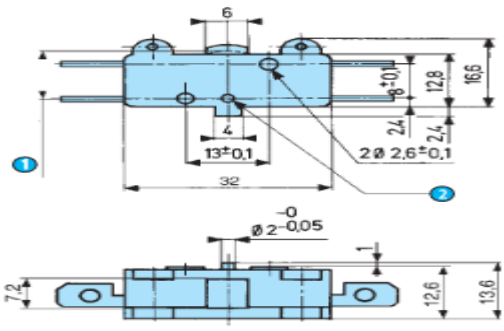
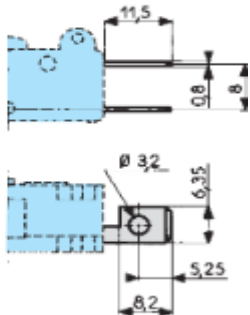
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Material Number 0121968		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Pressure switch	
P max	60 psig	
Adjustable range	0 to 4 psig	
Process connection	½ NPT	
IP Rating	IP65	
Contacts	1NO 1NC	
Contact Rating	250VAC, 5 A	
Additional Info	PB46A PRESSURE SWITCH, Asco Tripoint	
Diagram	 <p>Open Frame</p>	

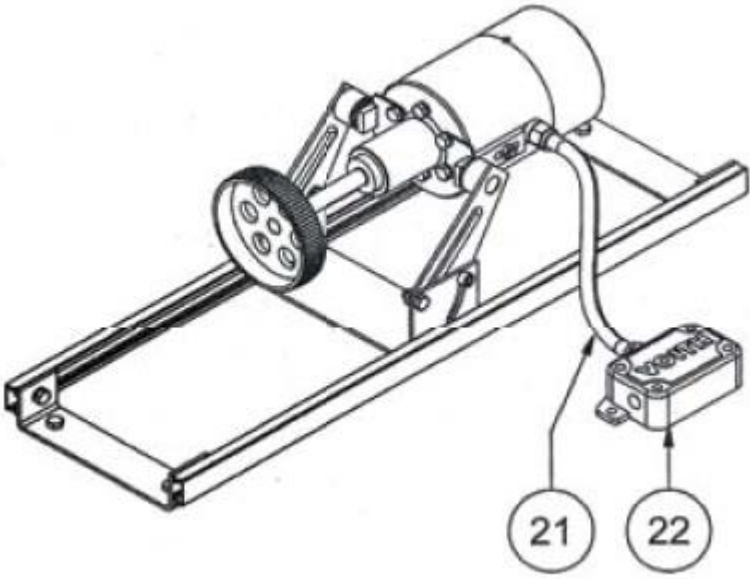
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Material Number 121975		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Micro switch, double pole double break snap action	
Switching/Actuating	4N 0.5mm differential travel (diagram A)	
Contact gap	0.4mm	
Switch dimensions	32mm (w) x 16.6mm (h) x 13.6mm (d) (Diagram A)	
Mounting holes	2mm dia, 15mm apart diagonal 13mm Horizontal (Diagram A)	
Contact	1NO + 1NC	
Terminal connection	6.35mm Clips (Diagram B)	
Contact Rating	5A 250VAC	
Ambient temp	-40 °C → +85 °C	
Additional	replacement or same as original installed type Crouzet 83106 W3	
Diagram	<p>Diagram A</p> <p>83 106</p>  <p>1 OL = 10.65</p> <p>2 $\varnothing 2^{+0.01}_{-0.05}$ Depth 1.2</p> <p>Diagram B</p> <p>W3 for 6.35 mm clips</p> 	

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Material Number 0121989		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Centrifugal Speed Switch	
Switch	NO	
Rating	5 A @ 250 VAC	
Calibration	286 RPM	
Additional Info	Voith	
Diagram		

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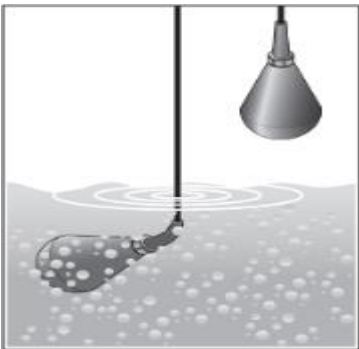
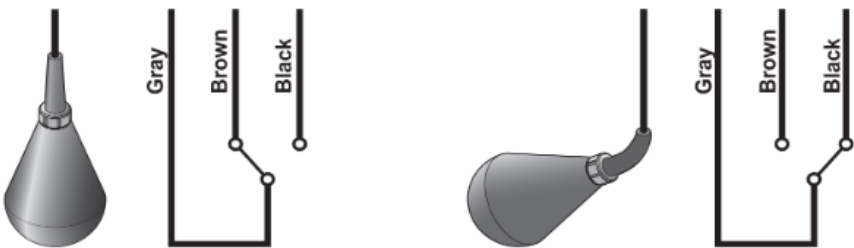
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Material Number 0122012		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Roller lever switch	
Switching/Actuating	Roller lever	
Switch dimensions	53mm (w) x 60mm (h)	
Contact	1NO + 1NC	
Contact Rating	380 VAC, 10 A	
Additional	IP66	
ACTUATION BY 30 DEG CAM, MAXIMUM SPEED 1.5M/S		

Material Number 122014		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Differential Pressure switch	
Max pressure	60 psi	
Adjustable range	0.5 – 160 psi	
Process connection	1/8 NPT Female	
IP Rating	IP65	
Contacts	1NO 1NC	
Contact Rating	250VAC, 3 A	
Additional	DPD1T-M80SS pressure switch, Barksdale	
Diagram		

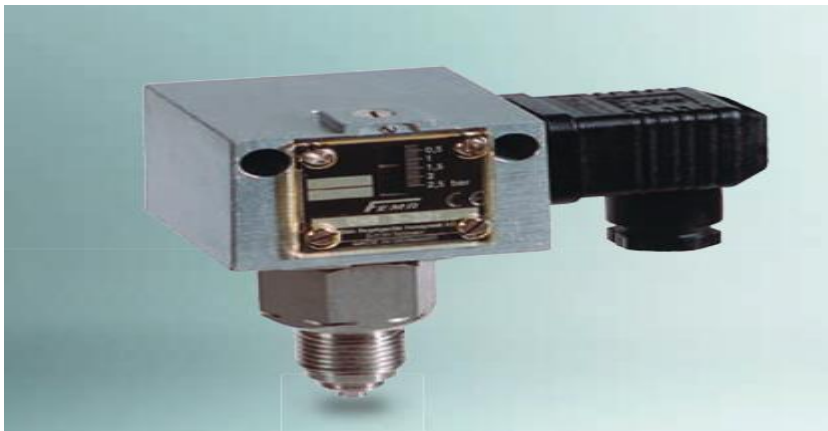
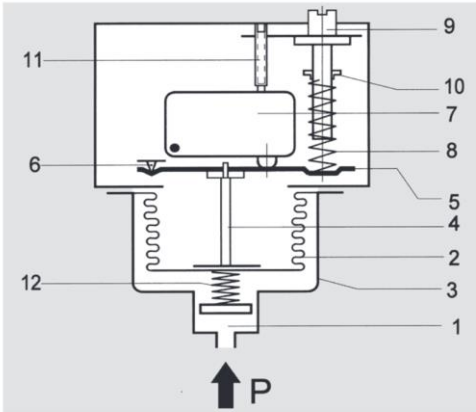
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Material Number 123639		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Float level switch	
Switching/Actuating	Tilt/Float (Diagram A)	
Ingress Protection	IP68	
Body material	Polypropylene/PVC	
Cable material	PVC	
Contact	1NO + 1NC	
Action	SPDT (Diagram B)	
Contact Rating	10A 250VAC	
Ambient temp	-20 °C → +80 °C	
Process temp	0 °C → +60 °C	
Cable length	6m	
Additional	Chemical resistant	
Diagram	<p>Diagram A</p>  <p>Diagram B</p> 	


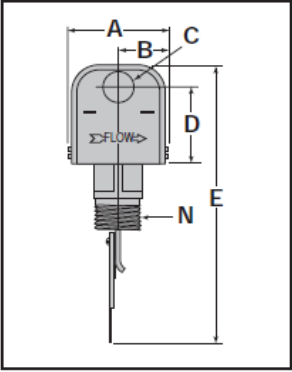
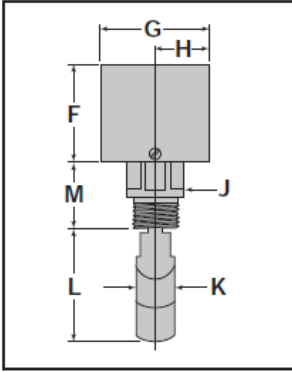
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Material Number 123701		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Pressure switch	
Switching/Actuating	Microswitch (Diagram B)	
Ingress protection	IP54	
Process connection	½" BSP	
Housing	Cast aluminium (Diagram A)	
Range	50-600kPa	
Contact	1NO + 1NC	
Action	SPDT	
Potential	5A 240VAC	
Ambient temp	-20 °C → +70°C	
Process temp	0 °C → +85 °C	
Additional	Part number Honeywell DNS6-201	
Diagram	<p>Diagram A</p>  <p>Diagram B</p>  <ul style="list-style-type: none"> 1 = Pressure connection 2 = Measuring bellows 3 = Sensor housing 4 = Thrust pin 5 = Connecting bridge 6 = Pivot points 7 = Microswitch or other switching elements 8 = Setting spring 9 = Setting spindle (switching point adjustment) 10 = Running nut (switching point indicator) 11 = Microswitch calibration screw (factory calibration) 12 = Counter pressure spring 	

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Material Number 0123707		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Flow switch, paddle type	
Max pressure	160 psi	
Max flow	47 gpm	
Process connection	1 $\frac{1}{4}$ IN NPT	
Contacts	1NO 1NC	
Contact Rating	250VAC, 5 A	
Cable Entry	Two electrical knock-outs allows connection from either end.	
Switch body height	211 mm	
Switch body depth	76 mm	
Switch body width	86 mm	
Additional	FS4-3J flow switch, 1 $\frac{1}{4}$ IN process connection	
Diagram	<div style="display: flex; flex-direction: column; align-items: center;">  <p>Series FS4-3</p> </div> <div style="display: flex; flex-direction: column; align-items: center;">   </div>	


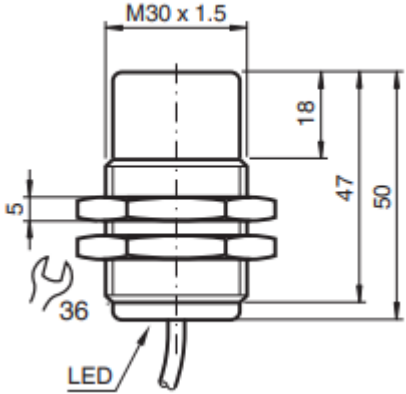
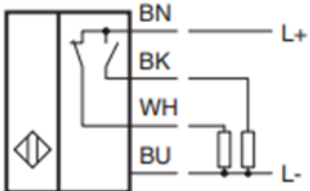
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Material Number 0147744		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Inductive sensor	
Switching Function	NO/NC	
Output Type	Two-wire DC	
Rated Operating Distance	40 mm	
Installation	Non-flush	
Nominal Voltage	5 – 60 VDC	
Switching Frequency	0 – 100 Hz	
Switching State Indicator	2 LED, yellow	
Connection Type	screw terminals	
Housing Material	PA/metal with epoxy powder coating	
Sensing Face	PA	
Degree of Protection	IP68 / IP69K	
Additional Info	Pepperl+Fuchs NBN40-U4-Z2	
Diagram		

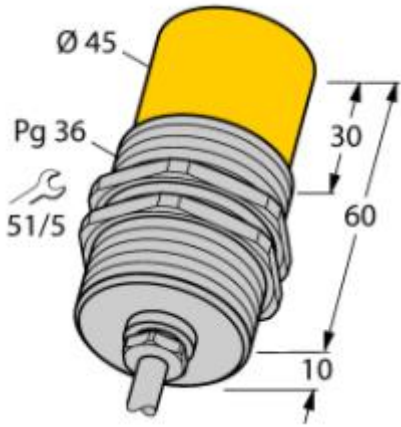
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Material Number 148120		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Proximity switch	
Output type	PNP	
Assured operating distance	0-12.15 mm	
Output type	4 wire	
Hysteresis	Typ. 5%	
Operating voltage	10 ... 60V	
Switch dimensions	63mm (w) x 125mm (h) x 39mm (d)	
Ambient temp	-25 °C → +75 °C	
Additional	IP 67	
Info: NJ15-30GM50-A2, proximity switch		
Diagram	<div>  <p>Inductive sensor NJ15-30GM50-A2</p> <ul style="list-style-type: none"> ■ Stainless steel housing ■ 15 mm non-flush </div> <div>   </div>	

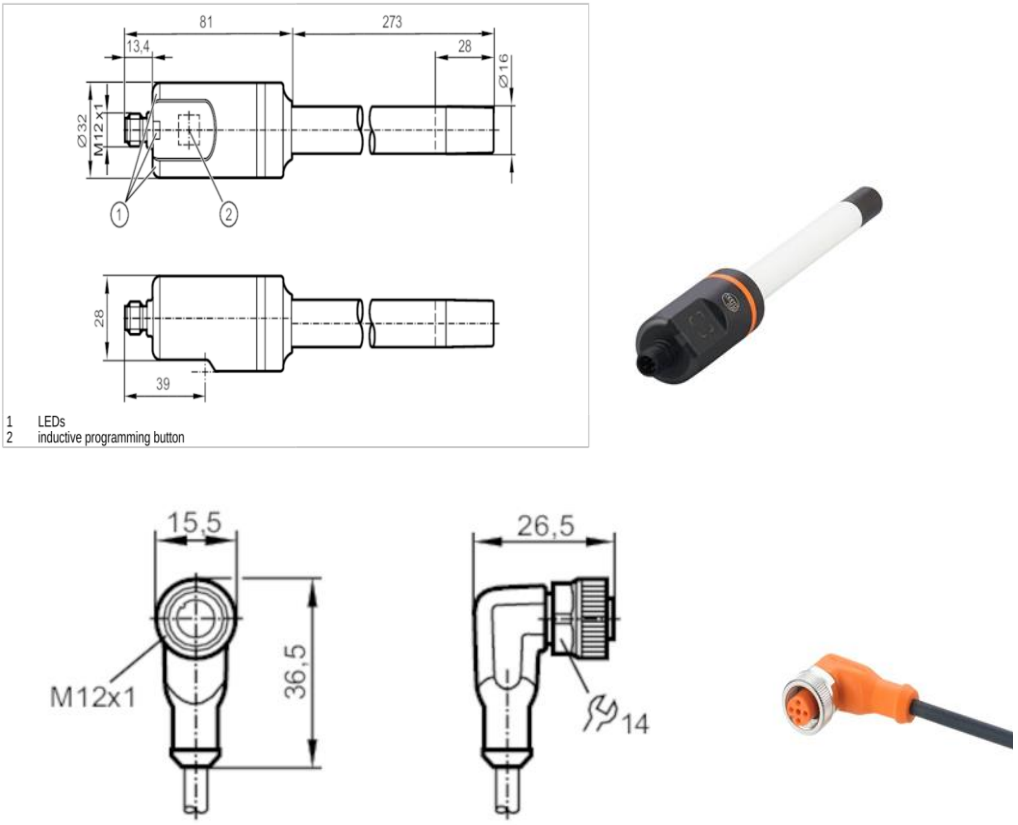
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Material Number 148967		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Proximity switch	
Output type	PNP	
Rated switching distance	25mm	
Mounting conditions	Non-flush	
Output type	2 wire	
Hysteresis	1...10 %	
Operating voltage	Nom. 8.2 VDC	
Switch dimensions	63mm (w) x 125mm (h) x 39mm (d)	
Ambient temp	-25 °C → +75 °C	
Additional	IP 67	
Info: NI25-G47-Y1, proximity switch, Turck		
Diagram		

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Material Number 0212523		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Sensor for point level detection	
Measuring principle	Capacitive	
Media	Liquids (Water / Oil)	
Operating Voltage	24VDC	
IP Rating	IP68	
Outputs	2 (PNP / NPN)	
Cable	EVC005 (5m, M12 connector)	
Probe Length	273mm	
Probe Diameter	16mm	
Additional Info: Replacement or same as original installed type IFM LI5132 (previously LI5142) + EVC005 cable https://www.ifm.com/za/en/product/LI5132 https://www.ifm.com/za/en/product/EVC005		
Diagram	 <p>1 LEDs 2 inductive programming button</p>	


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Material Number 588051		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Pressure switch with independent range and differential (hysteresis) setting	
Max pressure	42Bar	
Adjustable range	1.4....21Bar	
Hysteresis range	0.7....3.3Bar	
Process connection	1/4" NPTF female pipe connection	
IP Rating	IP66	
Contacts	1NO 1NC	
Contact Rating	>120VAC >1A (higher or equal)	
Cable Entry	1/2 NPT	
Switch body height	89mm	
Switch body depth	76mm	
Switch body width	89mm	
Mounting holes	7mmDia, 69mm horizontal & vertical spaced. Diagonal opposite	
Measured medium	Steam	
Additional Info: replacement or same as original installed type Allen Bradley 836T-T254JS60		
Diagram	<p>Length A = 176mm</p>	

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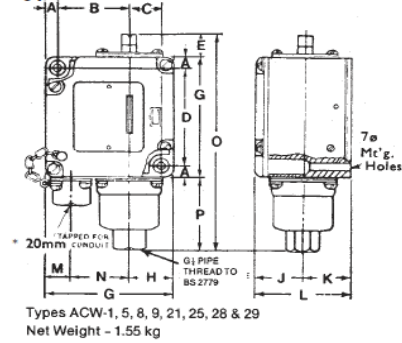
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Material Number 592657																																																																																																	
TENDERER TO PLEASE COMPLETE SCHEDULE B																																																																																																	
Criteria	Requirement (Schedule A)			Schedule B																																																																																													
Type	Industrial																																																																																																
Application	Fire System																																																																																																
Adjustable range	1.....110 PSI																																																																																																
Max Pressure	17 Bars																																																																																																
Process connection	G ¼" to BS2T19																																																																																																
IP Rating	IP65																																																																																																
Contacts	1NO 1NC																																																																																																
Contact Rating	24VDC, 5 A																																																																																																
Switch body height	165mm																																																																																																
Switch body depth	68mm																																																																																																
Switch body width	88mm																																																																																																
Specification	NF12177-SE 12200																																																																																																
Reference Number	ACW1																																																																																																
Measured medium	Water/Air																																																																																																
Additional	Vendors are responsible for ensuring that they are performing against the correct drawing revision number (if applicable)																																																																																																
Diagram	<div><div></div><div><p>Type ACW Bellows actuated pressure switches</p><p>Single pole – double throw contacts (1NO+1NC)</p><table><tr><th colspan="2">Range setting</th><th colspan="2">Adjustable Differential</th><th colspan="2">Maximum allowable pressure</th><th>Order Class 9012</th></tr><tr><td colspan="2">Switch can be adjusted to operate on Falling pressure within this range</td><td colspan="2">Add to range setting to obtain operating point on Rising pressure</td><td colspan="2"></td><td></td></tr><tr><th>Bars</th><th>PSI</th><th>Bars</th><th>PSI</th><th>Bars</th><th>PSI</th><th>Type...</th></tr><tr><td>0.1- 0.7</td><td>1-10</td><td>0.04- 0.3</td><td>½-5</td><td>2</td><td>30</td><td>ACW-3</td></tr><tr><td>0.1- 1.3</td><td>1-20</td><td>0.07- 0.4</td><td>1-6</td><td>2</td><td>30</td><td>ACW-4</td></tr><tr><td>0.1- 5.1</td><td>1-75</td><td>0.3 - 1</td><td>4-15</td><td>7</td><td>100</td><td>#ACW-5</td></tr><tr><td>0.1- 7.5</td><td>1-110</td><td>0.5 - 2</td><td>7-30</td><td>17</td><td>255</td><td>●ACW-1</td></tr><tr><td>1.4- 12</td><td>20-180</td><td>0.7 - 2</td><td>10-30</td><td>17</td><td>255</td><td>●ACW-8</td></tr><tr><td>0.7- 18</td><td>10-265</td><td>1.1 - 1.7</td><td>15-25</td><td>20</td><td>300</td><td>ACW-9</td></tr><tr><td>0.7- 20</td><td>10-300</td><td>1.7 - 8.6</td><td>25-125</td><td>41</td><td>600</td><td>ACW-2</td></tr><tr><td>5.2- 34</td><td>75-500</td><td>3.5 - 8</td><td>50-120</td><td>137</td><td>2000</td><td>ACW-6</td></tr><tr><td>10.4- 69</td><td>150-1000</td><td>5.9 -10</td><td>85-145</td><td>137</td><td>2000</td><td>ACW-7</td></tr><tr><td>24.1-131</td><td>350-1900</td><td>11 -20</td><td>150-300</td><td>172</td><td>2500</td><td>ACW-10</td></tr></table></div></div>						Range setting		Adjustable Differential		Maximum allowable pressure		Order Class 9012	Switch can be adjusted to operate on Falling pressure within this range		Add to range setting to obtain operating point on Rising pressure					Bars	PSI	Bars	PSI	Bars	PSI	Type...	0.1- 0.7	1-10	0.04- 0.3	½-5	2	30	ACW-3	0.1- 1.3	1-20	0.07- 0.4	1-6	2	30	ACW-4	0.1- 5.1	1-75	0.3 - 1	4-15	7	100	#ACW-5	0.1- 7.5	1-110	0.5 - 2	7-30	17	255	●ACW-1	1.4- 12	20-180	0.7 - 2	10-30	17	255	●ACW-8	0.7- 18	10-265	1.1 - 1.7	15-25	20	300	ACW-9	0.7- 20	10-300	1.7 - 8.6	25-125	41	600	ACW-2	5.2- 34	75-500	3.5 - 8	50-120	137	2000	ACW-6	10.4- 69	150-1000	5.9 -10	85-145	137	2000	ACW-7	24.1-131	350-1900	11 -20	150-300	172	2500	ACW-10
Range setting		Adjustable Differential		Maximum allowable pressure		Order Class 9012																																																																																											
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Bars	PSI	Bars	PSI	Bars	PSI	Type...																																																																																											
0.1- 0.7	1-10	0.04- 0.3	½-5	2	30	ACW-3																																																																																											
0.1- 1.3	1-20	0.07- 0.4	1-6	2	30	ACW-4																																																																																											
0.1- 5.1	1-75	0.3 - 1	4-15	7	100	#ACW-5																																																																																											
0.1- 7.5	1-110	0.5 - 2	7-30	17	255	●ACW-1																																																																																											
1.4- 12	20-180	0.7 - 2	10-30	17	255	●ACW-8																																																																																											
0.7- 18	10-265	1.1 - 1.7	15-25	20	300	ACW-9																																																																																											
0.7- 20	10-300	1.7 - 8.6	25-125	41	600	ACW-2																																																																																											
5.2- 34	75-500	3.5 - 8	50-120	137	2000	ACW-6																																																																																											
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Replacement Snap Switch assembly – Class 9007 Type AO-1																																																																																																	

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Types ACW-1, 5, 8, 9, 21, 28 & 29


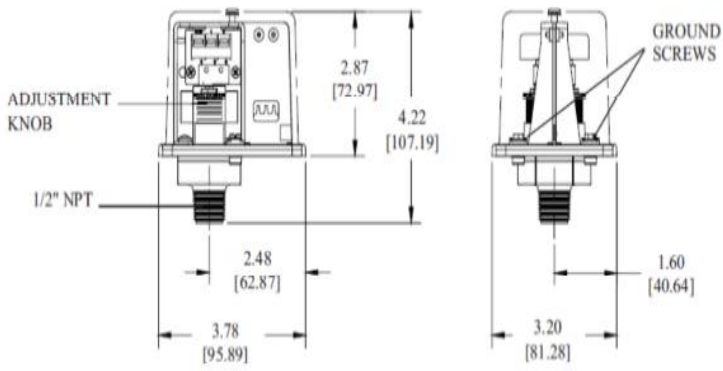


A	B	C	D	E	F	G	H	J	K
10	48	21	69	17	19	88	31	37	31

Type	L	M	N	O	P	Q	R
ACW-3, 4, 23 & 24 *	68	11	46	188	83	-	-
ACW-1, 5, 8, 9, 21, 25, 28 & 29	68	19	39	165	60	12	24
ACW-2, 6, 7, 10, 22, 26, 27 & 30	68	18	39	173	68	221	116
ADW-3, 4, 5, 6, 7, 23, 24, 25, 26 & 27	68	19	39	176	71	-	-

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Material Number 596892		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Pressure switch	
Max pressure	20.68 Bar	
Adjustable range	1-110 PSI	
Process connection	G1/4 IN-BSP	
IP Rating	IP65	
Contacts	1NO 1NC	
Contact Rating	24VDC, 5 A	
Switch body height	107 mm	
Switch body depth	81 mm	
Switch body width	96 mm	
Specification	BS 2779	
Reference Number	ACW-1	
Measured medium	Water/Air	
Additional	Vendors are responsible for ensuring that they are performing against the correct drawing revision number (if applicable)	
Diagram	 <p>Dimensions Fig. 1</p>  <p>NOTE: To prevent leakage, apply Teflon tape sealant to male threads only.</p>	

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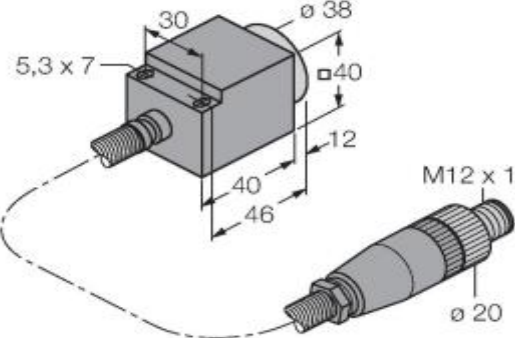
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Material Number 600359		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Solids point level switch	
Switching/Actuating	Capacitive	
Process connection	G 1 ½"	
Probe length	325mm, 316L	
Contact	2NO + 2NC	
Terminal connection	2SPDT	
Potential	10-55VDC	
Ambient temp	-40 °C → +85 °C	
Process temp	--50 °C → +180 °C	
Additional	Compact probe	

Material Number 0606098		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Proximity switch	
Output type	PNP	
Rated switching distance	2mm	
Contact	1 NC	
Output type	2 wire	
Hysteresis	1...10 %	
Operating voltage	24 VDC	
Switch dimensions	DIA 8 X LG 45 MM	
Ambient temp	-25 °C → +75 °C	
Additional	Mill grease system	
Info: Part number: ILS-019, JHP DIAGNOSTICS		

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Material Number 0624422		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Proximity switch, inductive	
Output type	PNP	
Rated switching distance	25 mm	
Contact	1 NO	
Output type	3 wire	
Hysteresis	3...15 %	
Operating voltage	10 VDC	
Switch dimensions	52x40x40 mm (LxWxH)	
Ambient temp	0 °C → +250 °C	
Additional	Secondary air heater	
Info: Part number: TURCK NI25-CQ40/S1102 5M		
Diagram		

Material Number 0631502		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Pressure switch	
Adjustable range	63 to 103 bar	
Process connection	¼ IN FNPT	
IP Rating	IP65	
Contacts	1NO 1NC	
Contact Rating	250VAC, 2 A	
Additional Info: Mill trun jack oil		

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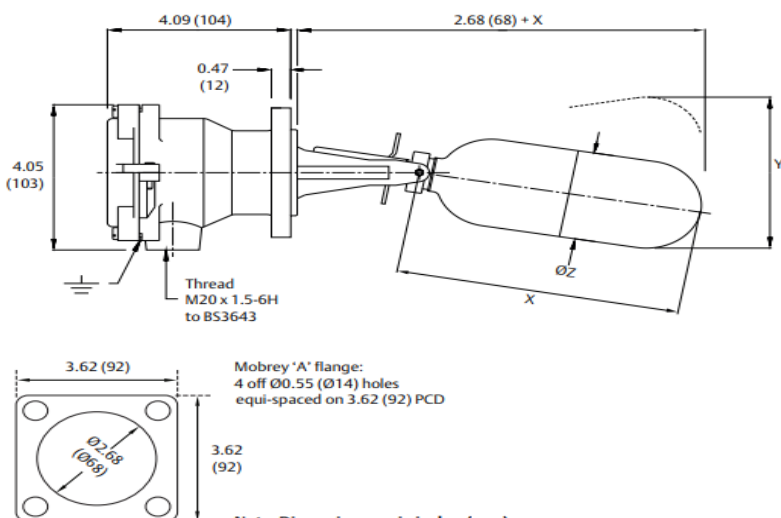
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Material Number 0631503		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Pressure switch	
Adjustable range	0 to 10 bar	
Process connection	1/4 IN FNPT	
IP Rating	IP65	
Contacts	1NO 1NC	
Contact Rating	250VAC, 10 A	
Additional Info: LP filter inl		

Material Number 0638573		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Inductive sensor	
Switching Function	NO	
Output Type	Two-wire DC	
Rated Operating Distance	5 mm	
Installation	flush	
Nominal Voltage	5 – 60 VDC	
Switching Frequency	0 – 500 Hz	
Switching State Indicator	all direction LED, yellow	
Connection Type	cabl PVC, 2 m	
Housing Material	brass, nickel-plated	
Sensing Face	PBT	
Degree of Protection	IP67	
Additional Info	Pepperl+Fuchs NBB5-18GM40-Z0	
Diagram		

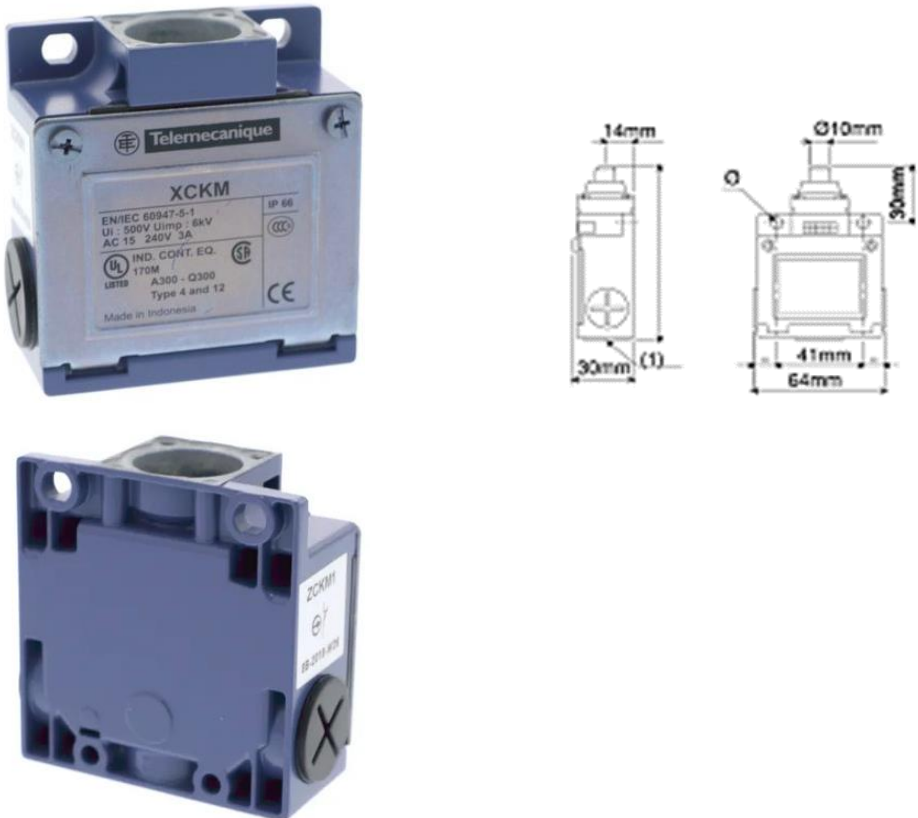
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Material Number 178586																										
TENDERER TO PLEASE COMPLETE SCHEDULE B																										
Criteria	Requirement (Schedule A)				Schedule B																					
Type	Level switch, Float (Magnetic)																									
Measured Medium:	Demineralised water (Max temp rating: 400 °C)																									
Contact Rating	POTENTIAL: 240 V, CURRENT: 2 A																									
Contact Specification:	ACTION: 2 x SPST, ARRANGEMENT: 1NC 1NO																									
DIMENSIONS:	See attached drawing																									
ENCLOSURE	Material: Aluminium alloy, RATING: IP66																									
Float:	General purpose high/low alarm, 316 SST, min. SG 0.71, 200 bar																									
Flange (head)	316S33 Stainless steel wetside, 3 in. Gasket: ASME B16.5 Class 900																									
Cable Entry	Nickel-plated brass gland with a fully insulated polychloroprene-nitrile rubber CR/NBR gasket seal. Clamping range for 8 to 13 mm OD cable																									
Additional:	Horizontal Float Switch, Snap-Action																									
Info: Replacement to be original installed type or equivalent (Mowbrey Model No: S490DA/F107)																										
Diagram	<table><tr><th>Float Type</th><th>Minimum S.G.</th><th>Max. P@T_{Room} PSI (Bar)</th><th>Max. T_{Process} °F (°C)</th><th>Differential in. (mm)</th><th>Dimension X in. (mm)</th><th>Dimension Y in. (mm)</th><th>Dimension øZ in. (mm)</th><th>Float Material</th></tr><tr><td>F107</td><td>0.71</td><td>2900 (200)</td><td>752 (400)</td><td>0.51 (13)</td><td>6.77 (172)</td><td>4.72 (120)</td><td>2.46 (62.5)</td><td>316 SST</td></tr></table>  <p>Note: Dimensions are in inches (mm).</p>								Float Type	Minimum S.G.	Max. P@T _{Room} PSI (Bar)	Max. T _{Process} °F (°C)	Differential in. (mm)	Dimension X in. (mm)	Dimension Y in. (mm)	Dimension øZ in. (mm)	Float Material	F107	0.71	2900 (200)	752 (400)	0.51 (13)	6.77 (172)	4.72 (120)	2.46 (62.5)	316 SST
Float Type	Minimum S.G.	Max. P@T _{Room} PSI (Bar)	Max. T _{Process} °F (°C)	Differential in. (mm)	Dimension X in. (mm)	Dimension Y in. (mm)	Dimension øZ in. (mm)	Float Material																		
F107	0.71	2900 (200)	752 (400)	0.51 (13)	6.77 (172)	4.72 (120)	2.46 (62.5)	316 SST																		

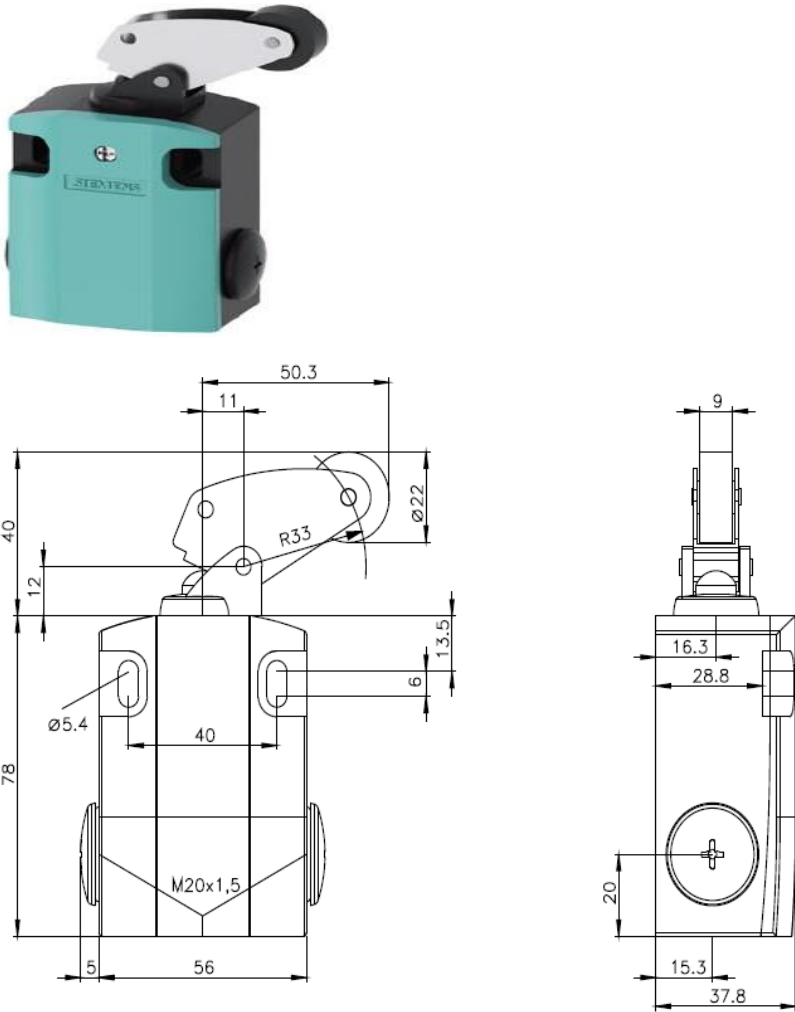
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Material Number 120204		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Limit Switch, Plunger	
Contact Rating	POTENTIAL: 400 V, CURRENT: 10 A	
Contact Specification:	ACTION: DPST, ARRANGEMENT: 1NO 1NC	
Enclosure Specification:	Rating: IP66 Material: Metal, Body dimensions: 64 mm W x 64 mm H x 30 mm D	
Mounting	Screw fixing (x2). See attached drawing	
Additional:	Cable entry: PG 11 cable gland	
Information:	Replacement to be original installed type or equivalent (Telemecanique PART NO: ZCK-M1 or PART NO: ZCK-M1)	
Diagram		


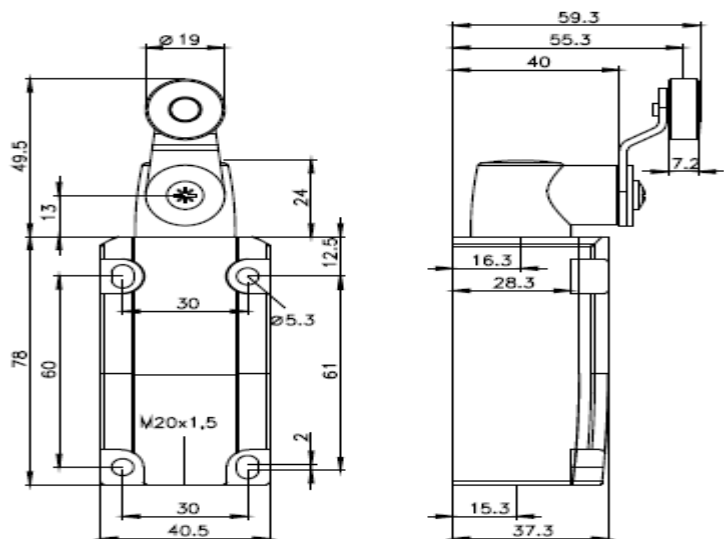
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Material Number 120804		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Limit Switch, Angular Roller Lever	
Contact Rating	POTENTIAL: 500 VAC, CURRENT: 10 A	
Contact Specification:	ACTION: DPST, ARRANGEMENT: 1NO 1NC	
Enclosure Specification:	Rating: IP67 Material: Metal, Body dimensions: See attached drawing	
Mounting	Screw fixing (x2). See attached drawing	
Additional:	Cable entry: M20 x 1.5 cable gland	
Information:	Replacement to be original installed type or equivalent (REFERENCE NO: 3SE5122-0CF01)	
Diagram		

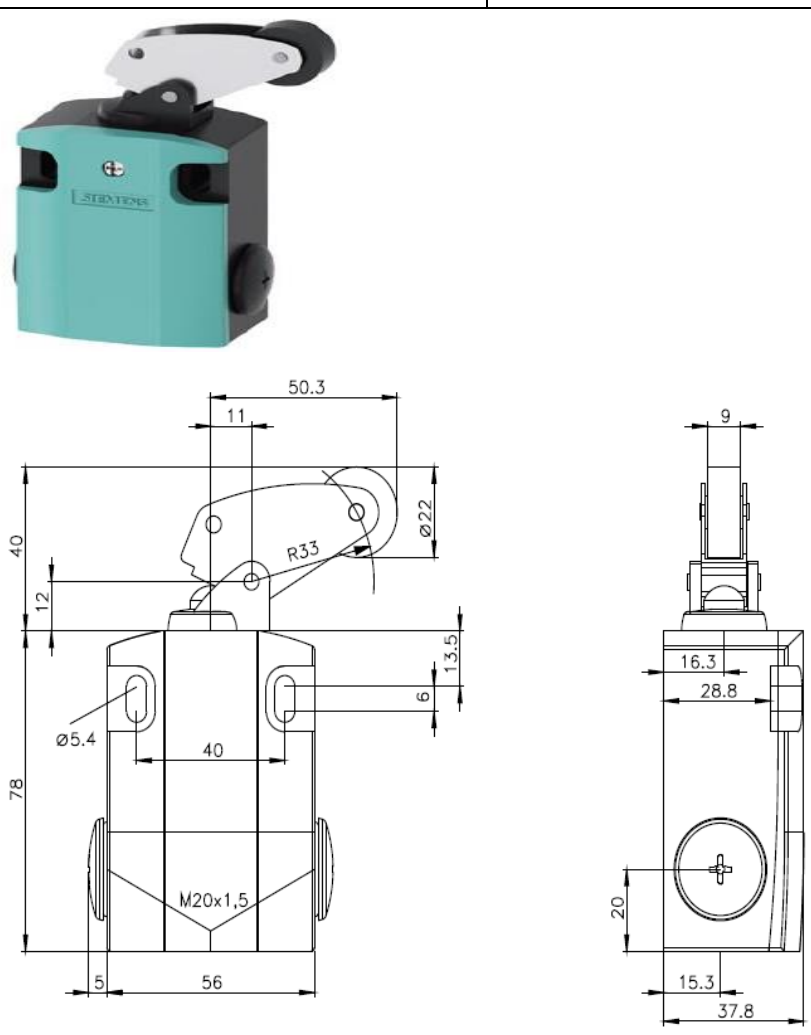
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Material Number 0120806		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Limit Switch, Roller Lever	
Contact Rating	POTENTIAL: 500 VAC, CURRENT: 10 A	
Contact Specification:	ACTION: DPST, ARRANGEMENT: 1NO 1NC	
Enclosure Specification:	Rating: IP67 Material: Metal, Body dimensions: See attached drawing	
Mounting	Screw fixing (x4). See attached drawing	
Additional:	Cable entry: M20 x 1.5 cable gland	
Information:	Replacement to be original installed type or equivalent (REFERENCE NO: 3SE5112-0CH01)	
Diagram	  <p>Technical drawing dimensions (mm):</p> <ul style="list-style-type: none"> Front View: Total height 78, mounting hole center-to-center 60, base width 40.5, mounting hole diameter $\varnothing 5.3$, roller lever diameter $\varnothing 19$, roller lever height 24, base thickness 2. Side View: Total width 59.3, mounting flange width 40, cable gland width 16.3, base width 15.3, total base width 37.3, mounting hole offset 28.3, roller lever offset 7.2. 	


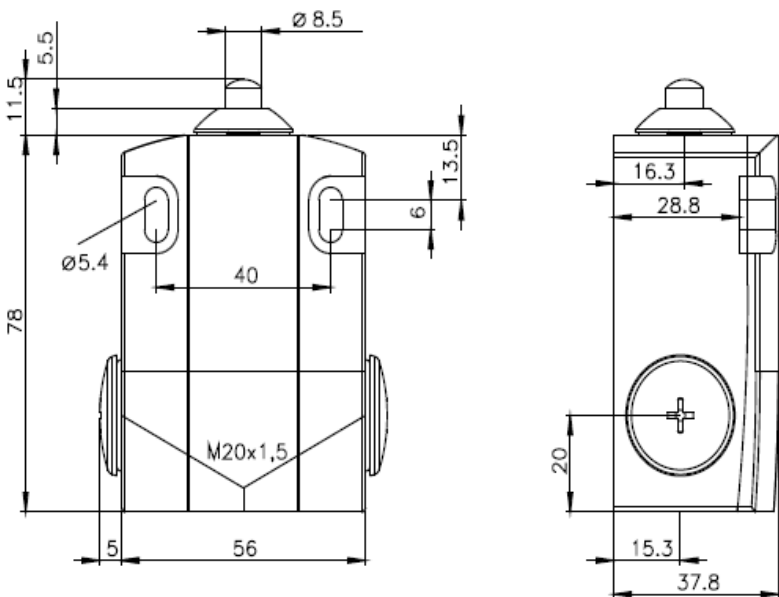
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Material Number 120804		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Limit Switch, Angular Roller Lever	
Contact Rating	POTENTIAL: 500 VAC, CURRENT: 10 A	
Contact Specification:	ACTION: DPST, ARRANGEMENT: 1NO 1NC	
Enclosure Specification:	Rating: IP67 Material: Metal, Body dimensions: See attached drawing	
Mounting	Screw fixing (x2). See attached drawing	
Additional:	Cable entry: M20 x 1.5 cable gland	
Information:	Replacement to be original installed type or equivalent (REFERENCE NO: 3SE5122-0CF01)	
Diagram		

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Material Number 0122950		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Limit Switch, Plunger	
Contact Rating	POTENTIAL: 230/500 VAC, CURRENT: 10-6 A	
Contact Specification:	ACTION: DPST, ARRANGEMENT: 1NO 1NC	
Enclosure Specification:	Rating: IP67 Material: Metal, Body dimensions: See attached drawing	
Mounting	Screw fixing (x2). See attached drawing	
Additional:	Cable entry: M20 x 1.5 cable gland	
Information:	Replacement to be original installed type or equivalent (SIEMENS REFERENCE NO: 3SE5122-0CB01)	
Diagram	 	

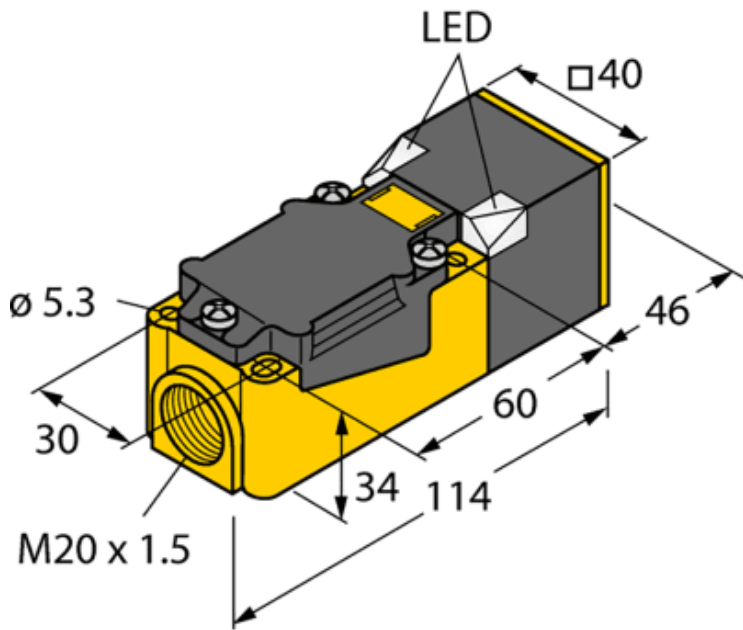
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Material Number 0123694		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Limit Switch, Roller Lever	
Contact Rating	POTENTIAL: 300 VAC, CURRENT: 10 A	
Contact Specification:	ACTION: DPDT, ARRANGEMENT: 2NO 2NC	
Enclosure Specification:	Rating: IP67 Material: Metal, Body dimensions: 56 x 78 x 38 mm	
Mounting	Screw fixing (x4). See attached Picture	
Additional Information:	Replacement to be original installed type or equivalent (REFERENCE NO: 3SE3-404-1E)	
Diagram		

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Material Number 147268		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Proximity Switch, Inductive	
Contact Rating	POTENTIAL: 10-65 VDC, CURRENT: 200 mA	
Contact Specification:	ACTION: SPST (PNP), ARRANGEMENT: 1NO	
Enclosure Specification:	Rating: IP67, Dimensions: 114 x 40 x 40 mm	
Mounting	Screw fixing (x4). See attached drawing	
Additional:	<ul style="list-style-type: none"> • CONNECTION: 4 WIRE, • Cable entry: M20 x 1.5 cable gland, SENSING RANGE: 35 MM	
Information:	Replacement to be original installed type or equivalent (TURCK PART NO: NI35-CP40-VP4X2)	
Diagram	 <p>The diagram shows an isometric view of a rectangular proximity switch. The main body is yellow, and the top cover is grey. Key dimensions and features are labeled:</p> <ul style="list-style-type: none"> LED: A small white square on the top cover. Dimensions: <ul style="list-style-type: none"> Top width: 40 mm Depth: 46 mm Front width: 60 mm Bottom width: 114 mm Height from base to top: 34 mm Distance from front face to top cover: 30 mm Thread diameter: $\varnothing 5.3$ Cable Entry: Labeled as M20 x 1.5. 	

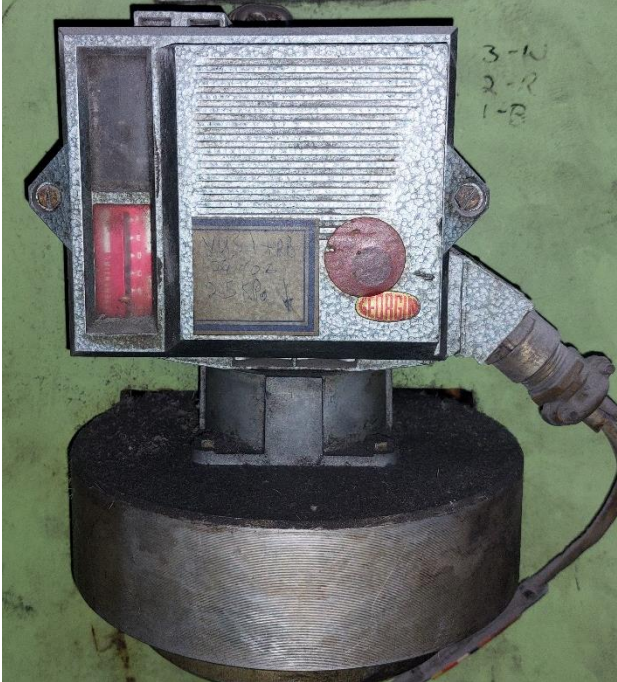
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Material Number 0120929		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Pressure Switch: Differential	
Measurement Range:	RANGE: 11-225 BAR	
Measured Medium:	Oil (OTC-46Z)	
Contact Rating	POTENTIAL: 250/480 VAC, CURRENT: 10 A (or better)	
Contacts:	ACTION: SPDT	
Process Connection:	CONNECTION: BOTTOM 1/4 IN-FNPT	
Max Pressure:	340 BAR	
Enclosure:	DIMENSIONS: WD 110 X LG 130 X HT 60 MM	
Additional		
Information:	Replacement to be original installed type or equivalent (Barksdale REFERENCE NO: B1T-H32)	
Diagram	<p>The diagram shows two views of the B1T pressure switch. The left view is a front elevation showing the terminal strip (2x3 pins on B2T), the process connection at the bottom, and various mounting dimensions. The right view is a side elevation showing the cable gland, adjustment screws (only S version), and overall dimensions. Dimensions are given in inches and millimeters.</p> <p>Front View Dimensions:</p> <ul style="list-style-type: none"> Top mounting bracket width: 34/1.34 Terminal strip width: 34/1.34 Process connection diameter: 71/2.795 Bottom mounting bracket width: 34/1.34 Terminal strip height: 27/1.06 Bottom mounting bracket height: 6.5/0.26 <p>Side View Dimensions:</p> <ul style="list-style-type: none"> Top mounting bracket width: 56/2.2 Terminal strip width: 36/1.42 Process connection diameter: 9/0.35 Bottom mounting bracket width: 6.5/0.26 Bottom mounting bracket height: 25/0.98 Overall width: 112/4.41 Overall height: 190/7.48 Height to terminal strip: 149/5.87 Height to bottom mounting bracket: 133/5.236 Height to process connection: 16/0.63 Height to bottom mounting bracket: 8/0.315 <p>Labels:</p> <ul style="list-style-type: none"> Cable gland M20 x 1,5 (cable diameter ø4,5...11 mm) Adjustment screw (only S version) Terminal strip (2x3 pins on B2T) Set screw SW10 under the lid Process connection Adjustment screw Power circuit 	

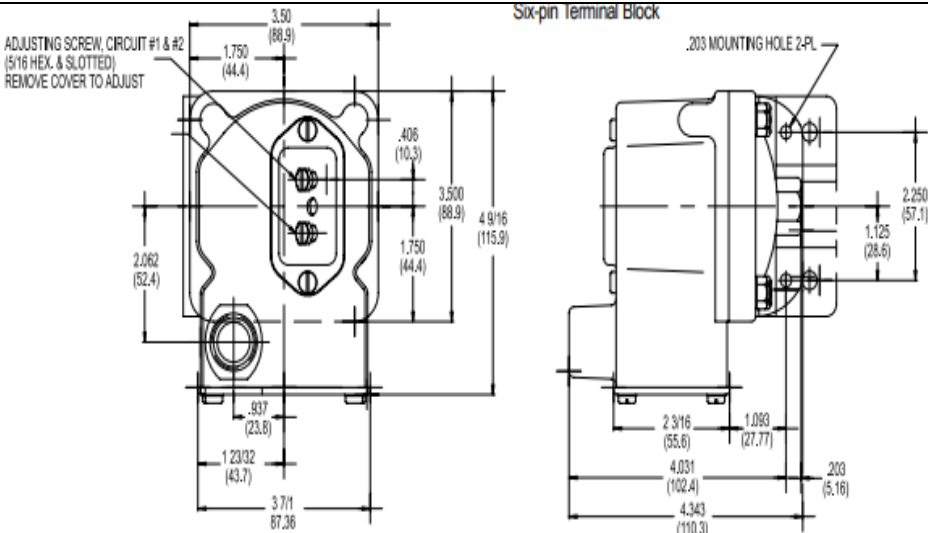
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Material Number 0121264		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Pressure Switch: Differential	
Measurement Range:	RANGE: 1.5-500 mBAR	
Measured Medium:	Hydrogen	
Contact Rating	POTENTIAL: 380 V, CURRENT: 16 A (or better)	
Contacts:	ACTION: SPDT	
Process Connection:	CONNECTION: BOTTOM 1/2 IN-FNPT	
Enclosure:	Rated for installation Ex Zone 2	
Additional		
Information:	Replacement to be original installed type or equivalent (GEORGIN PART NO: DMABV96R54.40)	
Diagram		

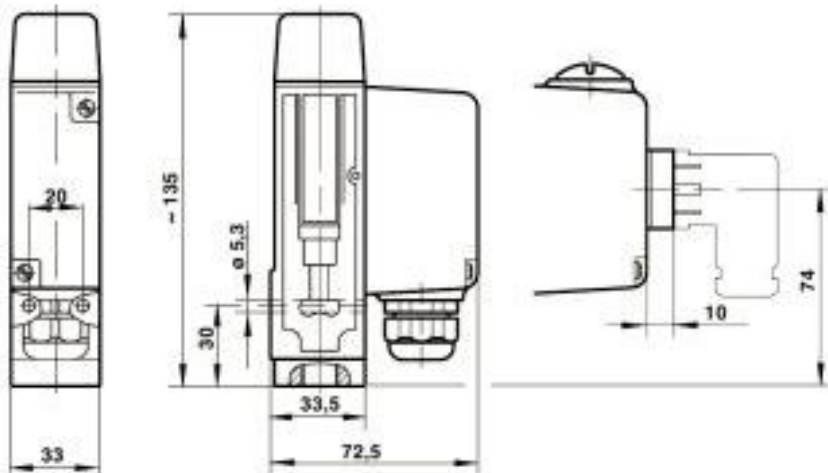
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Material Number 0122013		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Pressure Switch: Differential	
Measurement Range:	RANGE: 20-530 kPa	
Measured Medium:	Oil (OTC-46Z)	
Contact Rating	10 Amps @ 125/250 VAC; .5 Amps @ 24 VDC	
Contacts:	SPDT	
Process Connection:	CONNECTION: 1/4 IN-FNPT CONNECTION 1-4INS INTERNAL	
Enclosure:	Anodized Aluminum, NEMA 4	
Additional	VERSION WITH HOUSING AND CLAMPING STRIP FOR RACK OIL	
Information:	Replacement to be original installed type or equivalent (Barksdale REFERENCE NO: D1T-M80)	
Diagram		


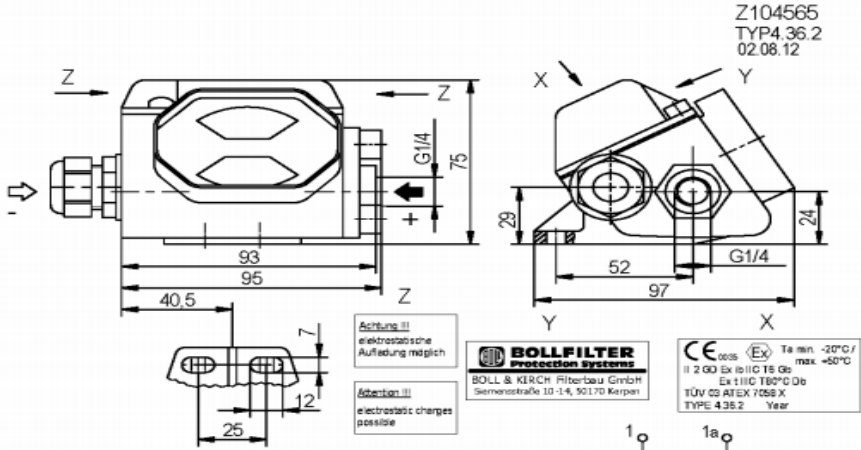
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Material Number 0571205		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Requirement (Schedule A)	
Measurement Range:	Pressure Switch: Electromechanical (Piston Actuated)	
Measured Medium:	RANGE: 0.5-30 BAR	
Contact Rating	Fire-resistant hydraulic fluid (Anvol PE 46 XC)	
Contacts:	POTENTIAL: 380 V, CURRENT: 6 A (or better)	
Process Connection:	ACTION: SPDT	
Enclosure:	CONNECTION: 1/4 IN	
Additional	DIMENSIONS: WD 35 X LG 110 X HT 35 MM	
Information:	Replacement to be original installed type or equivalent (Herion PART NO: P/ST8D, Order number: 08208 55 11 83)	
Diagram		

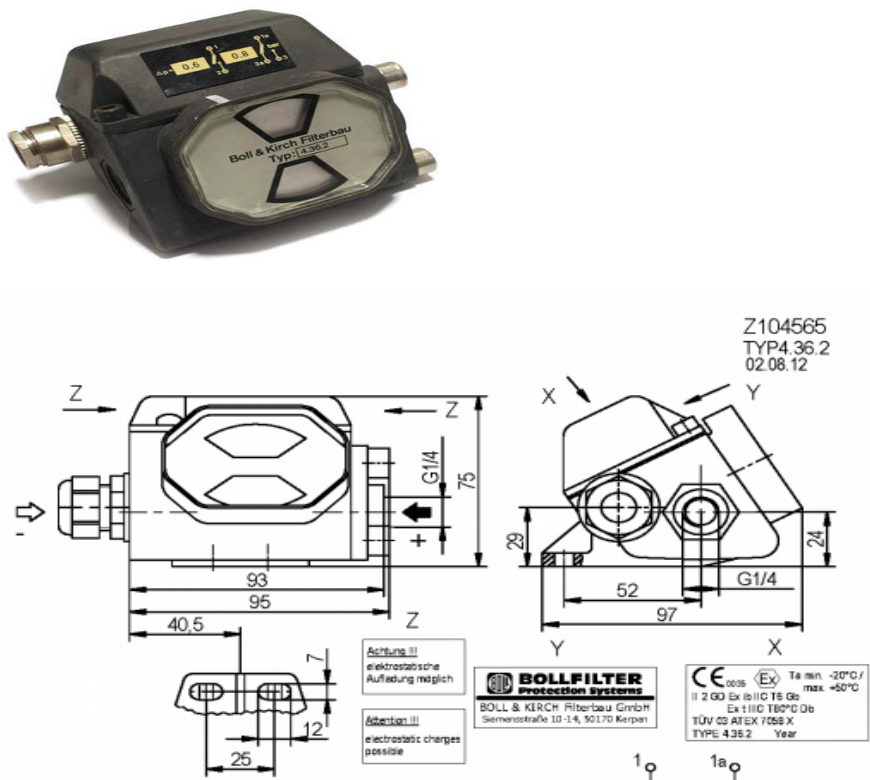
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Material Number 0667591		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Pressure Switch: Differential	
Measurement Range:	MEASUREMENT RANGE: 0-100 BAR	
Measured Medium:	Oil (OTC-46Z)	
Contact Rating	VOLTAGE: 250 V, CURRENT: 1 A (or better)	
Contacts:	CONTACT ARRANGEMENT: 1NO 1NC	
Process Connection:	CONNECTION SIZE: R 1/4 IN	
Enclosure:	ENCLOSURE RATING: IP54, TEMPERATURE RATING: 150 DEG C	
Additional	CONNECTION LOCATION: RH SIDE, WITH A PRE-SET PRESSURE SET POINT OF 0.8 BAR	
Information:	Replacement to be original installed type or equivalent (Boll&Kirch REFERENCE NO: 4 36 2)	
Diagram	 <p>Z104565 TYP 4.36.2 02.08.12</p> 	

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Material Number 0667624		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Pressure Switch: Differential	
Measurement Range:	MEASUREMENT RANGE: 0-100 BAR	
Measured Medium:	Oil (OTC-46Z)	
Contact Rating	VOLTAGE: 220 V, CURRENT: 1 A (or better)	
Contacts:	CONTACT ARRANGEMENT: 1NO 1NC	
Process Connection:	CONNECTION SIZE: R 1/4 IN	
Enclosure:	ENCLOSURE RATING: IP54, TEMPERATURE RATING: 150 DEG C	
Additional	CONNECTION LOCATION: RH SIDE, WITH A PRE-SET PRESSURE SET POINT OF 0.5 BAR	
Information:	Replacement to be original installed type or equivalent (Boll&Kirch REFERENCE NO: 4 36 2)	
Diagram		

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Material Number 0122015		
TENDERER TO PLEASE COMPLETE SCHEDULE B		
Criteria	Requirement (Schedule A)	Schedule B
Type	Requirement (Schedule A)	
Measurement Range:	Pressure Switch: Differential	
Measured Medium:	RANGE: 3.5-85 Bar (MAX pressure: 125 BAR)	
Contact Rating	Oil (OTC-46Z)	
Contacts:	10 Amps @ 125/480 VAC; .5 Amps @ 24 VDC	
Process Connection:	SPDT	
Enclosure:	CONNECTION: 1/4 IN-FNPT CONNECTION	
Additional	MATERIAL: Anodized Aluminum, RATING: IP67	
Information:	Replacement to be original installed type or equivalent (Barksdale REFERENCE NO: B1TH12)	
Diagram	<p>B1T...</p> <p>Dimensions (mm / inches):</p> <ul style="list-style-type: none"> Top width: 34 / 1.34 Top mounting hole spacing: 56 / 2.2 Top mounting hole diameter: 9 / 0.35 Top mounting hole offset: 36 / 1.42 Top mounting hole diameter: 112 / 4.41 Top mounting hole offset: 6.5 / 0.26 Top mounting hole offset: 25 / 0.98 Top mounting hole offset: 16 / 0.63 Top mounting hole offset: 8 / 0.315 Top mounting hole offset: 133 / 5.236 Top mounting hole offset: 149 / 5.87 Top mounting hole offset: 190 / 7.48 Top mounting hole offset: 71 / 2.795 Top mounting hole offset: 27 / 1.06 Top mounting hole offset: 6.5 / 0.26 Top mounting hole offset: 34 / 1.34 <p>Labels:</p> <ul style="list-style-type: none"> Terminal strip (2x3 pins on B2T) Set screw SW10 under the lid Adjustment screw (only S version) Adjustment screw Power circuit Process connection Cable gland M20 x 1,5 (cable diameter ø4,5...11 mm) 	

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