FLOAT SWITCH – CONTROL DUTY
2900 MERCURY SERIES – NARROW ANGLE FLOAT SWITCH

GENERAL
DESIGNED FOR ACCURATE LIQUID LEVEL CONTROL IN MANY APPLICATIONS INCLUDING SEWAGE ENVIRONMENTS. THE FLOAT SWITCH CAN BE UTILIZED TO SIGNIFY SPECIFIC WATER LEVELS OR FOR DIRECT ALARM ACTUATION.

SWITCH VARIATIONS
NORMALLY OPEN (N/O)
THE CONTACTS ARE OPEN (OR OFF) IN THE HANGING POSITION. AS THE FLOAT RISES 1" (5°) ABOVE HORIZONTAL, THE CONTACTS BECOME CLOSED AND ACTUATE (TURN ON) THE SWITCH. THIS FLOAT IS GENERALLY USED IN PUMP DOWN APPLICATIONS.
NORMALLY CLOSED (N/C)
THE CONTACTS ARE CLOSED (OR ON) IN THE HANGING POSITION. AS THE FLOAT RISES 1" (5°) ABOVE HORIZONTAL, THE CONTACTS BECOME OPEN AND ACTUATE (TURN OFF) THE SWITCH. THIS FLOAT IS GENERALLY USED IN PUMP UP APPLICATIONS.
SINGLE POLE, DOUBLE THROW (SPDT)
A VARIATION OF THE PREVIOUSLY LISTED SWITCHES. THIS FLOAT SWITCH CAN BE WIRED TO OPERATE AS EITHER (BUT NOT BOTH) A NORMALLY OPEN OR NORMALLY CLOSED SWITCH BASED ON THE USER’S NEED.

SWITCH SPECIFICATIONS
2900 SERIES MERCURY FLOAT SWITCHES ARE DESIGNED TO OPERATE UNDER THE FOLLOWING PARAMETERS.
- MINIMUM OPERATING TEMPERATURE - 32 DEGREES F.
- MAXIMUM OPERATING TEMPERATURE - 170 DEGREES F.
- ELECTRICAL RATING - 10 AMP – 120 VAC, 3 AMP – 240 VAC
- ACTUATION POINT - 1" ABOVE / BELOW HORIZONTAL.

POWER CORD SPECIFICATIONS
CONDUCTOR CORD – PHYSICAL - CHLORINATED POLY ETHYLENE.
ELECTRICAL FOR N/O OR N/C SWITCH - 18 AWG 2, TYPE SJOOW-300 VOLT.
ELECTRICAL FOR SPDT SWITCH - 18 AWG 3, TYPE SJOOW-300 VOLT.

FLOAT SPECIFICATIONS
DURABLE POLYPROPYLENE MATERIAL CONSTRUCTION.
SOLID POLYURETHANE FOAM INTERIOR.
LEAK PROOF, SHOCK PROOF, AND IMPACT RESISTANT.
RESISTANT TO SEWAGE AND WASTEWATER APPLICATIONS.
FOR USE WITH INTRINSICALLY SAFE CIRCUITS.

CORD WEIGHT
ZINC PLATED CAST IRON – 1.22 LBS.
SPLIT WEIGHT DESIGN ALLOWS FOR EASY ADJUSTMENT.
DESIGN ALLOWS FOR SECURE AND PERMANENT ATTACHMENT TO CORD.

CONERY MFG INC        1380 ENTERPRISE PARKWAY          ASHLAND, OH  44805
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NOTE: ALL ELECTRICAL DIAGRAMS SHOWN ARE EXAMPLES ONLY. CONSULT WITH LOCAL ELECTRICAL AUTHORITIES AND CODES. DO NOT USE THESE PRODUCTS IN GASOLINE, VOLATILES, OTHER COMBUSTIBLES.

FOR PUMP DOWN USE (NORMALLY OPEN FLOATS)
FOR PUMP UP USE (NORMALLY CLOSED FLOATS)
FOR SPDT FLOATS
GREEN – N/O
WHITE – COMMON
BLACK – N/C

TYPICAL 2 PUMP USES

LINE VOLTAGE

M1

M2

CONTACT TO LEAD PUMP MOTOR STARTER

FLOAT 3

M1

M2

CONTACT TO LAG PUMP MOTOR STARTER

FLOAT 2

FLOAT 1

HIGH WATER ALARM (NORMALLY OPEN FLOAT)

TYPICAL MOUNTING

FLOAT 4

FLOAT 3

FLOAT 2

FLOAT 1

ALL INFORMATION CONTAINED IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY TO CONERGY MFG, INC.

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MATERIAL SPECIFICATION:
NARROW ANGLE FLOAT SWITCH

SPECIFICATION SHEET MERCURY FLOAT

SCALE: PART NO.
NONE 2900 SERIES B1,B2