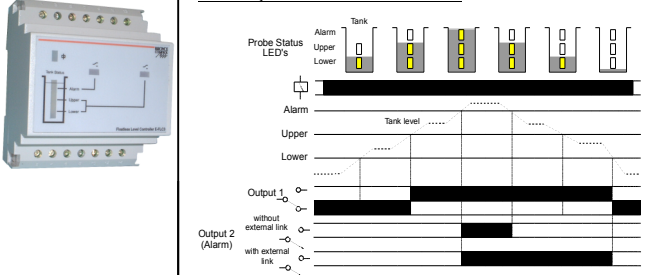
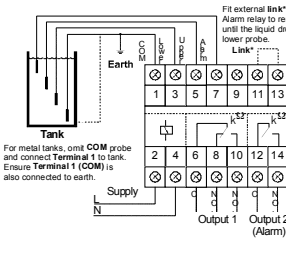
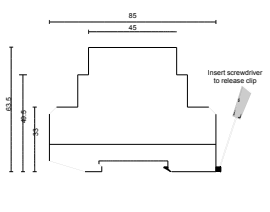


E-FLC3

Floatless Level Controller with Alarm Output

Contrôleur du niveau des liquides avec sortie alarme

FUNCTION DIAGRAM GRAPHIQUE DE FONCTIONNEMENT	CONNECTION DIAGRAM DIAGRAMME DE RACCORDEMENT	DIMENSIONS DIMENSIONS																																																																																								
 <ul style="list-style-type: none">MONITOR THE LEVEL OF A LIQUID WITHIN A TANK OR CONTAINER3 LEVELS OF MONITORING – LOW, HIGH & ALARMFIXED OPERATE AND RELEASE RESISTANCEUP TO 1KM DISTANCE BETWEEN CONTROLLER & PROBESBUILT-IN SURGE ARRESTORS PROTECT EACH PROBE INPUT AGAINST LIGHTNING STRIKESLED INDICATION OF PROBE/TANK LEVEL STATUSADDITIONAL LED INDICATION – SUPPLY/ RELAY OUTPUT	 <ul style="list-style-type: none">CONTRÔLE LE NIVEAU DU LIQUIDE À L'INTÉRIEUR D'UN RÉSERVOIR OU CONTENANT3 NIVEAUX DE CONTRÔLE : BAS, HAUT ET ALARMEVALEUR D'OPÉRATION ET DE DÉCLENCHEMENT FIXEPLUS D'UN KILOMÈTRE DE DISTANCE ENTRE LE CONTRÔLEUR ET LES SONDESPARAFOUDRE INTÉGRÉINDICATEURS DEL – ÉTAT DES SONDES ET NIVEAU DU RÉSERVOIRINDICATEURS ADDITIONNELS – ALIMENTATION/SORTIE	 <ul style="list-style-type: none">INSTALLATION AND SETTINGBEFORE INSTALLATION, ISOLATE THE SUPPLY.Connect the unit as shown in the diagram above. For metal tanks, the COM probe can be connected to the tank itself. For non-metallic, ensure the COM probe is located below the other probes (i.e. at the bottom). Terminal I (COM) must be connected to earth at all times.Apply power and the green 'power on' LED will illuminate.The LED's on the front of the controller will illuminate according to the level of the liquid within the tank.When the lower and upper probes are covered by the liquid, both yellow LED's will illuminate and 'output 1' relay will energize. The relay will remain energized until both probes are uncovered. Both yellow LED's will extinguish. A red LED is provided to indicate the status of this relay (illuminated when energized).If the alarm probe is also covered by the same liquid, the yellow 'alarm covered' LED will illuminate and 'output 2' relay will energize. This will remain energized until the probe is uncovered (terminals 11 and 13 NOT linked), or the liquid drops below the lower probe (terminals 11 and 13 linked). A red LED illuminates when this relay is energized.																																																																																								
<ul style="list-style-type: none">TECHNICAL SPECIFICATION <table><tr><td>Supply voltage Un:</td><td>230V AC 50/60Hz</td></tr><tr><td>Supply variation:</td><td>0.85 - 1.15 x Un</td></tr><tr><td>Isolation:</td><td>Over voltage category III</td></tr><tr><td>Rated impulse withstand voltage:</td><td>4kV (1.2/50uS) IEC 60664</td></tr><tr><td>Power consumption:</td><td>≈ 4VA</td></tr><tr><td>Inter-electrode voltage:</td><td>≈ 8V AC</td></tr><tr><td>Maximum current:</td><td>≈ 5mA AC</td></tr><tr><td>Function resistance operate:</td><td>≈ 4Kohms min</td></tr><tr><td>Release:</td><td>≈ 15Kohms max</td></tr><tr><td>Time delay operate:</td><td>≈ 80 ms</td></tr><tr><td>Release:</td><td>≈ 160 ms</td></tr><tr><td>Distance between probes & relay:</td><td>1 km max</td></tr><tr><td>Surge protection:</td><td></td></tr><tr><td>Spark-over-voltage:</td><td>90V dc ± 20V</td></tr><tr><td>Impulse discharge current:</td><td>10kA (8/20uS waveform)</td></tr><tr><td>Ambient temperature:</td><td>-20 to +60°C</td></tr><tr><td>Relative humidity:</td><td>+95%</td></tr><tr><td>Output:</td><td>SPDT (output 1), SPNO (output 2)</td></tr><tr><td>Output rating:</td><td>AC1 250 V AC 8A (2000VA) AC15 250V AC 2.5A DC1 25V DC 8A (200W)</td></tr><tr><td>Electrical life:</td><td>≥ 150,000 ops at rated load</td></tr><tr><td>Housing:</td><td>to UL94 VO</td></tr><tr><td>Weight:</td><td>≈ 170g</td></tr><tr><td>Approvals:</td><td>UL, CUL, CE</td></tr></table>	Supply voltage Un:	230V AC 50/60Hz	Supply variation:	0.85 - 1.15 x Un	Isolation:	Over voltage category III	Rated impulse withstand voltage:	4kV (1.2/50uS) IEC 60664	Power consumption:	≈ 4VA	Inter-electrode voltage:	≈ 8V AC	Maximum current:	≈ 5mA AC	Function resistance operate:	≈ 4Kohms min	Release:	≈ 15Kohms max	Time delay operate:	≈ 80 ms	Release:	≈ 160 ms	Distance between probes & relay:	1 km max	Surge protection:		Spark-over-voltage:	90V dc ± 20V	Impulse discharge current:	10kA (8/20uS waveform)	Ambient temperature:	-20 to +60°C	Relative humidity:	+95%	Output:	SPDT (output 1), SPNO (output 2)	Output rating:	AC1 250 V AC 8A (2000VA) AC15 250V AC 2.5A DC1 25V DC 8A (200W)	Electrical life:	≥ 150,000 ops at rated load	Housing:	to UL94 VO	Weight:	≈ 170g	Approvals:	UL, CUL, CE	<ul style="list-style-type: none">FICHES TECHNIQUES <table><tr><td>Alimentation:</td><td>230V CA 50/60Hz</td></tr><tr><td>Variation d'alimentation:</td><td>0.85 - 1.10 x Un</td></tr><tr><td>Isolation:</td><td>Surtension catégorie III</td></tr><tr><td>Impulsion nominale résistant à la tension :</td><td>4kV (1.2/50uS) IEC 60664</td></tr><tr><td>Consommation:</td><td>≈ 4VA</td></tr><tr><td>Tension entre sondes:</td><td>≈ 8V AC</td></tr><tr><td>Ampérage maximum :</td><td>≈ 5mA AC</td></tr><tr><td>Valeur d'opération :</td><td>≈ 4Kohms min</td></tr><tr><td>Valeur de déclenchement :</td><td>≈ 15Kohms max</td></tr><tr><td>Temps de réponse:</td><td>Opération : ≈ 80 ms Déclenchement : ≈ 160 ms</td></tr><tr><td>Distance sondes/relais :</td><td>1 km max</td></tr><tr><td>Protection contre les ondes de surtension :</td><td></td></tr><tr><td>Étincelles :</td><td>90 Vcc ± 20V</td></tr><tr><td>Courant de décharge :</td><td>10kA (8/20uS (forme d'onde)</td></tr><tr><td>Température ambiante:</td><td>-20 à +60°C</td></tr><tr><td>Humidité relative:</td><td>+95%</td></tr><tr><td>Capacité de la sortie:</td><td>1 inverseur (sortie 1), N.O. (sortie 2) AC1 250V CA 8A (2000VA) AC15 250V CA 2.5A DC1 25V CC 8A (200W)</td></tr><tr><td>Durée de vie électrique:</td><td>≥ 150,000 (AC1)</td></tr><tr><td>Boîtier:</td><td>UL94 VO</td></tr><tr><td>Poids:</td><td>≈ 170g</td></tr><tr><td>Homologations:</td><td>UL, CUL, CE</td></tr></table>	Alimentation:	230V CA 50/60Hz	Variation d'alimentation:	0.85 - 1.10 x Un	Isolation:	Surtension catégorie III	Impulsion nominale résistant à la tension :	4kV (1.2/50uS) IEC 60664	Consommation:	≈ 4VA	Tension entre sondes:	≈ 8V AC	Ampérage maximum :	≈ 5mA AC	Valeur d'opération :	≈ 4Kohms min	Valeur de déclenchement :	≈ 15Kohms max	Temps de réponse:	Opération : ≈ 80 ms Déclenchement : ≈ 160 ms	Distance sondes/relais :	1 km max	Protection contre les ondes de surtension :		Étincelles :	90 Vcc ± 20V	Courant de décharge :	10kA (8/20uS (forme d'onde)	Température ambiante:	-20 à +60°C	Humidité relative:	+95%	Capacité de la sortie:	1 inverseur (sortie 1), N.O. (sortie 2) AC1 250V CA 8A (2000VA) AC15 250V CA 2.5A DC1 25V CC 8A (200W)	Durée de vie électrique:	≥ 150,000 (AC1)	Boîtier:	UL94 VO	Poids:	≈ 170g	Homologations:	UL, CUL, CE	
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