

		120VAC WIRING GUIDE - V 2	0.4	
CONTROL PANEL TERMINAL	EXTERNAL DEVICE TERMINAL	WIRE COLOR/CABLE LOCATION	PURPOSE	PROCURED BY
		LINE POWER CONNECTION		
L1			120VAC HOT, LINE POWER	
N			NEUTRAL, LINE POWER	-
GROUNDING NUT			GROUND, LINE POWER	
		ACTUATOR - ROTORK IQT SERIES 393M2000		
4	2	3 CONDUCTOR CABLE	120VAC HOT, ACTUATOR POWER	INSTALLER
N	3	3 CONDUCTOR CABLE	NEUTRAL, ACTUATOR POWER	INSTALLER
GROUND LUG	GND SYMBOL	3 CONDUCTOR CABLE	GROUND, ACTUATOR POWER	INSTALLER
5	26	4 CONDUCTOR CABLE	VALVE POSITION COMMAND SIGNAL (+)	INSTALLER
7	27	4 CONDUCTOR CABLE	VALVE POSITION COMMAND SIGNAL (-)	INSTALLER
10	22	4 CONDUCTOR CABLE	VALVE POSITION CONFIRMATION SIGNAL (+)	INSTALLER
2	23	4 CONDUCTOR CABLE	VALVE POSITION CONFIRMATION SIGNAL (-)	INSTALLER
A+	32	2 CONDUCTOR CABLE, SHIELDED TWISTED PAIR	RS485 DATA (+)	INSTALLER
В-	28	2 CONDUCTOR CABLE, SHIELDED TWISTED PAIR	RS485 DATA (-)	INSTALLER
	F	PRESSURE TRANSDUCER (4-20mA) - PMC VL2000 S	SERIES	
1		RED (+), PMC	PRESSURE TRANSDUCER, POWER	OPTI
17		BLACK (-), PMC	PRESSURE TRANSDUCER, SIGNAL	OPTI
S1		GREEN (GND), PMC	PRESSURE TRANSDUCER, GROUNDING	OPTI

ROTORK IQT125			
WIRE GAUGE	MAX. LENGTH (FT		
8	1647		
10	1036		
12	651		
14	410		
16	258		
18	162		

MINIMUM CONDUIT SIZE SPECIFICATIONS				
NO. CONDUCTORS	MIN. CONDUIT SIZE (IN			
2	1/2			
3 - 6	3/4			
7 - 9	1			
10 - 12	1-1/4			

ELECTRICAL INSTALLATION NOTES

1 SONTRACTOR TO DETERMINE IF THERE ARE UNDERGROUND UTILITIES IN THE WORK AREA PRIOR TO EXCAVATION BY CALLING DIG SAFE AT LEAST 49 HOURS PRIOR TO STARTING WORK, CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO UNDERGROUND UTILITIES CAUSED BY TRENCHING OR EXCAVATION.

2 UNDERGROUND UTILITIES CAUSED BY TRENCHING OR EXCAVATION.

2 UNDERGROUND UTILITIES CAUSED BY TRENCHING OR EXCAVATION.

2 PRIOR CARBE DAY A LICENSED ELECTRICAN. BLALL BE RESPONSED FOR ENSURING HAT THE CONTRINIOL PAREL AND ASSOCIATED COMPONENTS ARE PROPERLY CONNECTED TO THE LINE POWER SOURCE AND THAT CONDUIT AND CABLING IS SIZED AND INSTALLED PER THEN EC.

3. ALL CONDUCTORS SHALL BE IDENTIFIED AT EACH END (LABELED OR COLOR COURS AND THE IDENTIFIED CONDUCTORS DOCUMENTED IN THE SITE LAYOUT MAP.

4. PENETRATIONS RITO CONTROL PARIEL MUST BE IPSS RATED (NO WATER SHALL PENETRATE ANY SEALS). SUSSURFACE TERMINATIONS SHALL BE SEALED WITH POLYWATER CLOSED-CELL FORM DUCT SEALANT (PROCURED THROUGH OPTI WITH ACTUATORS SHALL BE SEALED WITH POLYWATER CLOSED-CELL FORM DUCT SEALANT (PROCURED THROUGH OPTI WITH ACTUATOR POWER CONSICTIONS ALL OTHER CONDUCTORS MUST BE AT EAST 16 WAY.

3. REFERENCE "ACTUATOR POWER CABLE AWG SPECIFICATIONS" TABLE FOR THE CORRECT CONDUCTOR GAUGE FOR ACTUATOR POWER CONNECTIONS ALL OTHER CONDUCTOR CONDUCTORS MUST BE ALL EST 16 WAY.

4. ALL BIRISTS CONDUCTIONS ALL OTHER CONDUCTORS MUST BE ALL EST 16 WAY.

5. REFERENCE "ACTUATOR POWER CABLE WITH SAFELY COLULE 40 CONDUCT SHALL BE INSTALLED WITH ANIMAM COVER OF AT LEAST 16 WAY.

6. ALL BIRISTS CONDUCTIONS ALL OTHER CONDUCTORS MUST BE ALL EST 16 WAY.

6. ALL BIRISTS CONDUCTIONS ALL OTHER CONDUCTORS AND SECRETIONAL AREA FOR INSTALLED CABLES.

7. RECEIVED OF THE RECOLD.

7. RECORD OF THE NEED CONDUCTOR SEALED OF THE

FITTING IF NEEDED.

LEAVE A MINIMUM OF 1 FOOT SPARE CABLING NEATLY COILED IN CONTROL PANEL FOR FUTURE MAINTENANCE OR SYSTEM MODIFICATION.

8. LEAVE A MINIMUM OF 1 FOOT SPARE CABLING NEATLY COLED IN CONTROL PANEL FOR PUTURE MAINTENANCE OR SYSTEM MODIFICATIONS.

9. LEAVE A MINIMUM STEET LOOP OF PLEXIBLE CONDUIT IN OUTLET STRUCTURE FOR LASE OF FUTURE MAINTENANCE PLEXIBLE CONDUIT SHALL RICH RYMAN AND PROMISE STRUCTURE. RIGID CONDUIT SHALL RICH RYMAN AND PROMISE STRUCTURE RIGID CONDUIT SHALL BUSINERGEDISATURATED METAL HARDWARE SHALL BE STAINLESS STEEL GALVANIZED STEEL MAY BE USED ABOVERSOUND OR IN DRY LOCATION.

11. PRESSURE REFERENCE DEVICE (COMPONENT OF LEVEL SENSOR AT CABLE TERMINATION) TO BE LOCATED IN OPTI CONTROL PANEL. TO A GROUNDING BOOD AND PROVIDE PROPER STRUCTURE. RIGID CONDUIT OF PROVIDED PROVIDED STEEL POILS OR A CONCERT SCREED GROUNDING BLECTRODE. PANEL TO A GROUNDING GROUNDING STEEL POILS OR A CONCERT SCREED GROUNDING ELECTRODE.

1. AFTER RISTALLATION. COMPLETE CONTRACTOR INSTALLATION OF HORSE AND PROVIDED BY OPTI AND PROVIDE PHOTOS OF ALL INSTALLED COMPLETED FROM THE PLANS IS COMPLETE. (2) THE ENGINEER OF RECORD HAS COMPLETED FROM THE SYSTEM FERT THE PLANS IS COMPLETE. (2) THE ENGINEER OF RECORD HAS COMPLETED FROM THE SYSTEM FERT THE PLANS IS COMPLETE. (2) THE ENGINEER OF RECORD HAS COMPLETED FROM THE SYSTEM FERT THE PLANS IS COMPLETE. (2) THE SYSTEM HAS SEEN THE PLANS SEEN OF RECORD HAS COMPLETED FROM THE SYSTEM FERT THE PLANS IS COMPLETE. (2) THE SYSTEM HAS SEEN THE PLANS SEEN OF RECORD HAS COMPLETED FROM THE SYSTEM FERT THE PLANS IS COMPLETE. (2) THE SYSTEM HAS SEEN THE PLANS SEEN OF RECORD HAS COMPLETED FROM THE SYSTEM FERT THE PLANS IS COMPLETE. (2) THE SYSTEM HAS SEEN THE PLANS SEEN OF RECORD FOR SWING SIMPLE PROVIDED OF ALL INSTALLED COMPONENTS IF FINAL LICATIONS HAVE VARIED FROM PLANSET. INDOOR INSTALLATIONS OR INSTALLATIONS OR WITH POOR CELLULAR RECEPTION REQUIRE AND OUTDOOR WALL-MOUNTED ANTENNA CONTRACTOR TO COORDINATE ANTENNA LOCATION WITH OPTIENSURE CONNECTIVITY.

17. LEVEL SENSOR CARLE SHALL NOT BE SYSTICED.



OPTIRTC, INC. 98 NORTH WASHINGTON ST. SUITE 210 BOSTON, MA 02114 (844) 678-4782

WIRING PLAN 3IN-4IN IQT125 (LINE POWERED)

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