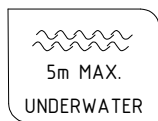
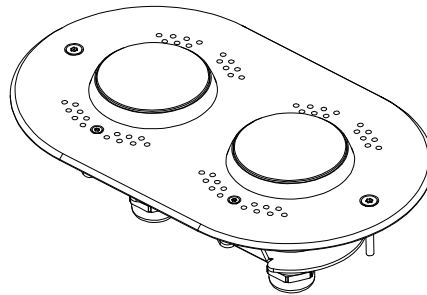


# ARPOOL IRIS BIFECTA

## INSTALLATION INSTRUCTIONS (FIXTURE)



24 VDC



IP68

AISI316L

Ta | 40°C

IK10



NO PRESSURE  
WASH



All dimensions are given according to the SI system of units (mm, kg, °C), additional dimensions that are written in brackets, are given according to the U.S. measurement system (in, lbs, °F)

### GENERAL REMARKS ON SAFETY

- READ ALL OF THESE INSTRUCTIONS BEFORE INSTALLING FIXTURES.
- KEEP ALL OF THE INSTRUCTIONS FOR FUTURE REFERENCE.
- INSTALLATION IS TO BE PERFORMED BY A QUALIFIED ELECTRICIAN ONLY.
- ALL INSTALLATIONS ARE TO CONFORM TO THE STANDARDS OF THE NATIONAL ELECTRICAL CODE AS WELL AS ALL LOCAL JURISDICTIONAL CODES AND REGULATIONS.
- PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.
- TURN OFF POWER BEFORE INSTALLING FIXTURE.
- DO NOT OPEN THE LUMINAIRE AS IT WILL ANNUL THE IP RATING OF LUMINAIRE AND VOID THE WARRANTY.
- THE SURFACE TEMPERATURE OF THE FIXTURE IS  $\approx 40^{\circ}\text{C}$  ( $104^{\circ}\text{F}$ ) AND IMPOSES NO LIMITS ON INSTALLATION.
- CALCULATE THE MAXIMUM POWER CONSUMPTION AND USE APPROPRIATELY SIZED DRIVERS/CONTROLLERS.
- FIXTURES' SURFACES EXPOSED TO THE EFFECTS OF WATER (INCLUDING WATER CONTAINING CHLORINE) ARE MADE OUT OF AISI316L STAINLESS STEEL. AISI316L IS SUITABLE FOR THIS USE AND WILL PREVENT CORROSION UP TO LEVEL OF 1000 PPM OF CHLORINE IN WATER AND UP TO WATER pH LEVEL OF 7.
- THE EXTERNAL FLEXIBLE CABLE OR CORD OF THIS LUMINAIRE CANNOT BE REPLACED; IF THE CORD IS DAMAGED, THE LUMINAIRE WILL NO LONGER BE USABLE, AND THE LUMINAIRE MUST BE REPLACED.

### WARRANTY

ALL PRODUCTS ARE FACTORY TESTED AND ARE GUARANTEED FREE FROM FACTORY DEFECT FOR A PERIOD OF 36 MONTHS UNDER FOLLOWING TERMS:

- PRODUCT HAS NOT BEEN SUBJECT TO INCORRECT VOLTAGE OR POLARITY CONNECTION.
- PRODUCT HAS NOT BEEN SUBJECT TO PHYSICAL OR ATMOSPHERIC DAMAGE.
- PRODUCT HAS BEEN RETURNED AND FACTORY EVALUATED FOR DEFECT OR MALFUNCTION.
- ALL DRIVERS AND CONTROLLERS ARE APPROVED FOR USE BY FILIX.
- THE LUMINAIRE FACTORY SEAL ( IP RATING ) HAS NOT BEEN COMPROMISED

THE MANUFACTURER ACCEPTS NO RESPONSIBILITY FOR DAMAGE TO PERSONS OR PROPERTY ARISING THROUGH IMPROPER USE OR INSTALLATION.

ANY MODIFICATION OF THE LUMINAIRE WILL VOID ANY AND ALL WRITTEN OR IMPLIED WARRANTIES.

THE WARRANTY DOES NOT COVER CHROMATICITY RANGE CLAIMS IF THE PRODUCT IS IN THE SAME CHROMATICITY RANGE AS SPECIFIED ON A SPEC SHEET. PRODUCTS MAY DIFFER BY ELECTRICAL, OPTICAL AND MECHANICAL PROPERTIES.

### STANDARD REPLACEMENT AND NORMAL SERVICING TERMS.

ALL ELECTRONIC AND OTHER CONSUMABLE COMPONENTS ARE SUBJECT OF EXCHANGE AFTER 36 MONTHS OF OPERATIONS. PRODUCT PERFORMANCE DEPENDS OF CRITICAL ELECTRONIC AND OTHER COMPONENTS WHICH CAN BE SERVICED WITH OFFICIAL DEALER OR DIRECTLY WITH THE MANUFACTURER.

MANUFACTURER HOLDS THE RIGHT TO REPAIR AND CHANGE COMPONENTS AS PER CURRENT COMPONENT AVAILABILITY.

MANUFACTURER CANNOT BE HELD LIABLE FOR COMPONENTS AND OTHER EXPENSES ( DE-INSTALLATION, INSTALLATION, SHIPPING, ETC.) INCURRED DURING THE PROCESS OF PRODUCT IMPROVEMENT AND SERVICING.

THE LIGHT SOURCE CONTAINED IN THIS LUMINAIRE SHALL ONLY BE REPLACED BY THE MANUFACTURER OR HIS SERVICE AGENT OR A SIMILAR QUALIFIED PERSON.

## WIRE MARKINGS

### OPTION WITH SINGLE LED COLOR

- + BLACK WIRE (POS. 1 IN CONNECTOR)
- WHITE WIRE (POS. 3 IN CONNECTOR)

### OPTION WITH RGBW LED COLOR

- + BLACK WIRE (POS. 1 IN CONNECTOR)
- R RED WIRE (POS. 2 IN CONNECTOR)
- G GREEN WIRE (POS. 3 IN CONNECTOR)
- B ORANGE WIRE (POS. 4 IN CONNECTOR)
- W WHITE WIRE (POS. 5 IN CONNECTOR)

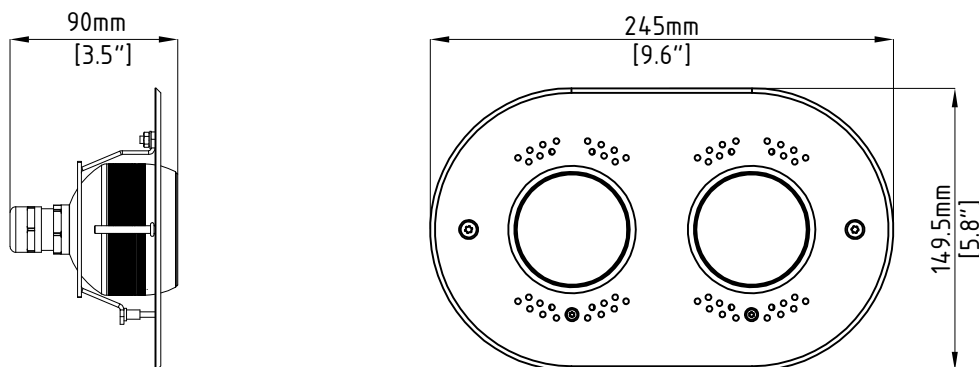
## NOTE:

IT ADVISED THAT CABLE LENGTH IS LONG ENOUGH THAT IT REACHES DRY AREA FOR SPLICE CONNECTION. CONTROL GEAR USED TO POWER THIS LUMINAIRE SHALL BE SELV TYPE; HIGHEST ALLOWED  $U_{out}$  TO BE MAX 10% OF THE NOMINAL VOLTAGE OF CONTROL GEAR; MAXIMUM ALLOWED WIRING DISTANCE BETWEEN CONTROL GEAR AND LUMINAIRE WITH STANDARD SUPPLIED CABLE IS 9m OR 30'. INSTALLATION OF LONGER WIRING LENGTHS SHOULD BE DISCUSSED WITH MANUFACTURER PRIOR THE FIXTURE ORDERING.

WHERE LUMINAIRE IS DELIVERED WITH CONNECTING LEADS AND WITHOUT A MEANS OF CONNECTION TO THE POWER SUPPLY, TERMINAL BLOCKS MAY BE USED (TERMINAL BLOCKS NOT SUPPLIED BY MANUFACTURER). TERMINAL BLOCKS SHALL BE IN THE SAME IP RATING AS THE LUMINAIRE ITSELF, WITH RATED VOLTAGE OF MIN. 400 V AND RATED CONNECTION CAPACITY OF 10A. WIRE ENDS COMING FROM POWER SUPPLY TO BE PREPARED AS TERMINAL BLOCK MANUFACTURER RECOMMENDS. TERMINAL BLOCK SHOULD BE PLACED IN A LOCATION WHERE IT DOESN'T NOT AFFECT THE LUMINAIRE OPERATION.

WHEN FIXTURE IS SUPPLIED WITH SPECIAL CONNECTORS, ASSEMBLE THE MALE AND FEMALE CONNECTORS. TO SECURE THE IP RATING FASTEN THE NUT ON CONNECTOR UNTIL CLICKING NOISE IS GENERATED, THIS SIGNALS THE CONNECTOR IS FASTENED AND FULLY IP PROTECTED.

## FIXTURE DIMENSIONS



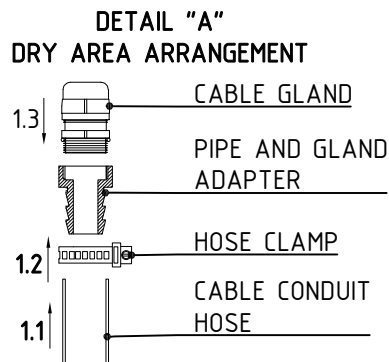
# INSTALLATION GUIDE

## CONCRETE POOL FIXTURE

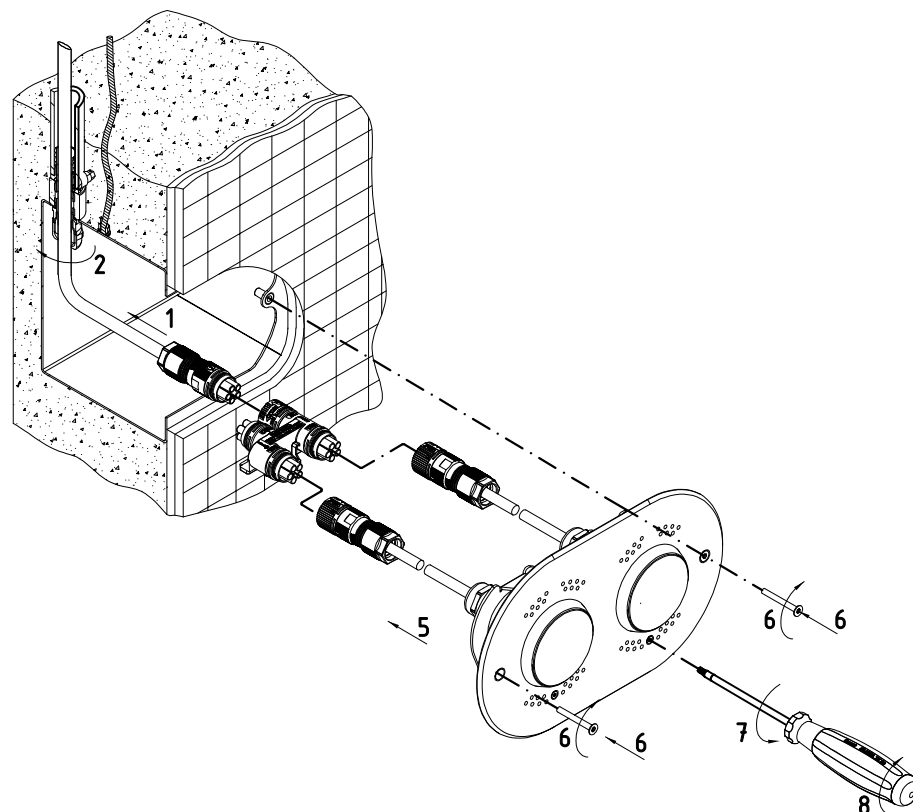
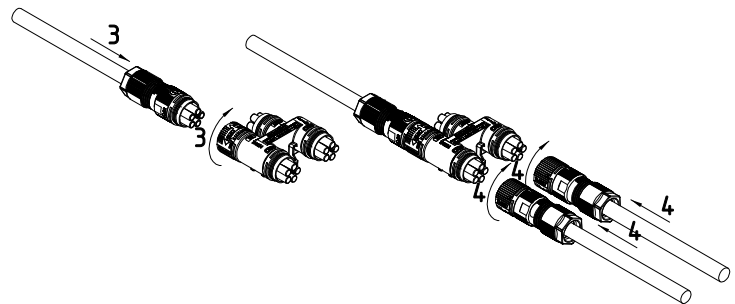
1. ROUTE THE FEED CABLE THROUGH THE HOUSING CABLE GLAND AND CONDUIT HOSE TO THE SPLICE CONNECTION AREA (IT IS ADVISED THAT AREA WHERE SPLICE CONNECTION IS MADE IS DRY AND SUITABLE FOR ELECTRICAL CONNECTIONS, SHOWN IN DETAIL "A")
2. TIGHTEN CABLE GLAND IN INSTALLATION HOUSING AFTER CABLE HAS BEEN ROUTED THROUGH
3. PLUG THE FEED CABLE CONNECTOR THB.387.B.5A INTO THE JUNCTION CONNECTOR THH.624.A.5A CABLE AS SHOWN IN DETAIL "B". TURN FERULLE UNTIL FULLY SEATED (MAX. 1[Nm], IT IS ENOUGH TO TIGHTEN UNTIL FIRM RESISTANCE IN ROTATION IS ACHIEVED. WRONG CONNECTION NOT POSSIBLE DUE TO "POKA-YOKE" SYSTEM
4. CONNECT THE FIXTURE CONNECTORS TO THE JUNCTION CONNECTOR ON THE FEED CABLE. JUNCTION CONNECTOR ASSEMBLY INSTRUCTIONS ATTACHED WITH FIXTURE INSTALLATION INSTRUCTIONS, AND SHOWN IN DETAIL "B"
5. PLACE THE FIXTURE IN THE INSTALLATION HOUSING
6. FIX THE FIXTURE TO THE INSTALLATION HOUSING WITH SCREWS (SCREW TYPE ISO 14581, SCREW SIZE IS M4x35 A4/MARINE GRADE; HEXALOBULAR T20 STAINLESS STEEL SCREWDRIVER TO BE USED)
7. ADJUST ANGLE OF EACH INDIVIDUAL FIXTURE BY LOOSENING THE SCREW LOCATED ON FIXTURE FLANGE
8. WITH ANGLE ADJUSTED FASTEN THE SCREWS UNTIL TIGHT (SCREWS SUPPLIED BY MANUFACTURER, SCREW TYPE ISO14581 - M3x16 A4/MARINE GRADE, HEXALOBULAR T10 STAINLESS STEEL SCREWDRIVER TO BE USED)

### DRY AREA

- 1.1 CONNECT CABLE CONDUIT HOSE TO THE GLAND ADAPTER
- 1.2 MOUNT AND FASTEN HOSE CLAMP (SUPPLIED BY MANUFACTURER).
- 1.3 MOUNT CABLE GLAND ON TO GLAND ADAPTER



**DETAIL "B"**  
**CONNECTOR ASSEMBLY**



1. REMOVE THE FIXTURE FROM THE INSTALLATION HOUSING BY REMOVING THE SCREWS AS PER STEP 6 IN INSTALLATION GUIDE SECTION (SCREW TYPE ISO 14581, SCREW SIZE IS M4x35 A4/MARINE GRADE; HEXALOBULAR T20 STAINLESS STEEL SCREWDRIVER TO BE USED)
2. REMOVE THE FIXTURE FROM THE HOUSING AND DISCONNECT THE CONNECTORS (SHOWN IN DETAIL "B" OF INSTALLATION GUIDE SECTION)
3. LOOSEN THE SCREW LOCATED ON FLANGE UNTIL IT COMES OUT OF STUD NUT (SCREW TYPE ISO14581 - M3x16 A4/MARINE GRADE, HEXALOBULAR T10 STAINLESS STEEL SCREWDRIVER TO BE USED)
4. REMOVE THE NUT AND WASHER FROM STUD BOLT (#5,5 STAINLESS STEEL WRENCH TO BE USED)
5. REMOVE THE ADAPTER BRACKET (SAVE THE NUTS AND WASHERS FOR LATER USE)
6. REPLACE THE ENGINE
7. MOUNT THE ADAPTER BRACKET AND FASTEN NUTS AND SCREWS THAT WERE REMOVED
8. RETURN TO FIXTURE INSTALLATION GUIDE AND REPEAT ALL STEPS

**IMPORTANT SUGGESTION:**

IT IS ADVISED TO CHANGE THE TECHNO THH.624 JUNCTION CONNECTOR WITH EVERY ENGINE REPLACEMENT TO MITIGATE ANY LEAKAGE PROBLEMS.

IT IS ADVISED CLEAN INSTALLATION HOUSING AND FIXTURE PARTS AFTER REPLACEMENT TO EXTEND THE LIFETIME OF EVERY ELEMENT IN THE ASSEMBLY.

