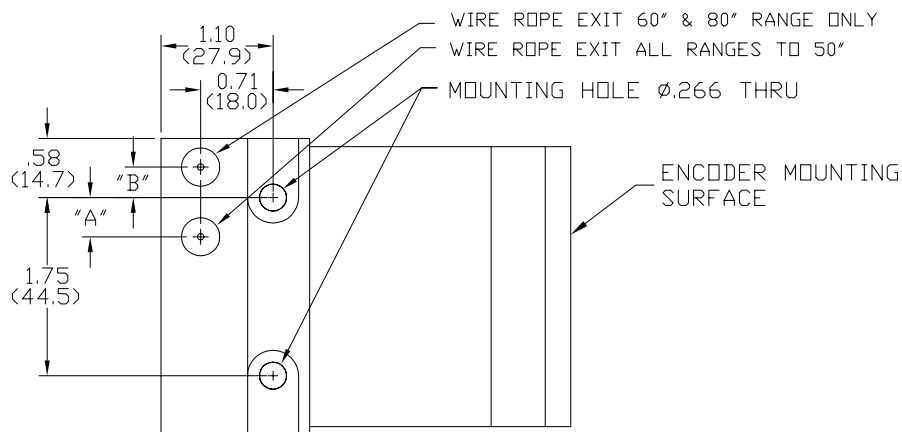# HXLR Encoder Mounting Instructions

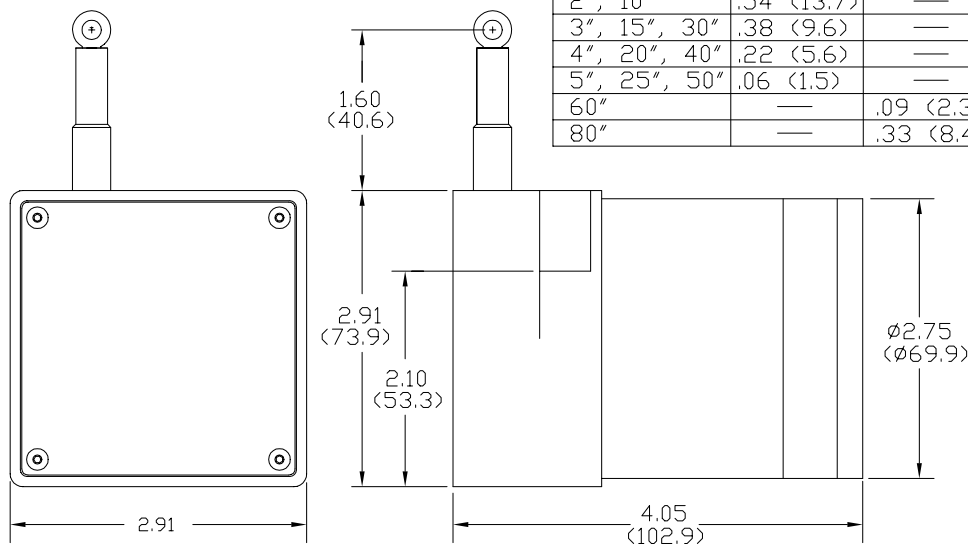## BEI H25D Flange Mount Encoder (Ranges 2" to 80", Adapter "A")

1. Remove o-ring from plastic bag and place into groove of encoder adapter plate on HXLR module.
2. Remove 10-24 button head cap screw and nylon washer from HXLR module adapter housing so that the screw on the coupling may be accessed.
3. Insert a 7/64" hex driver into the coupling access hole and remove the 6-32 screw from the shaft coupling. Place thread sealant (Loctite 242 or equivalent) onto the screw threads and re-insert into the coupling but do not tighten.
4. Place the BEI encoder onto the module with shaft inserted into the coupling and secure with four sealant coated (Loctite 242 or equivalent) ¼-20 x .50" long screws. Tighten screws to approximately 20 to 30 lb-in.
5. Tighten the screw of the shaft coupling to 20 lb-in.
6. Place the 10-24 button head cap screw and nylon washer back into the coupling access hole and tighten to approximately 15 lb-in.

Dimensional Information

HXLR Module (Ranges to 80")

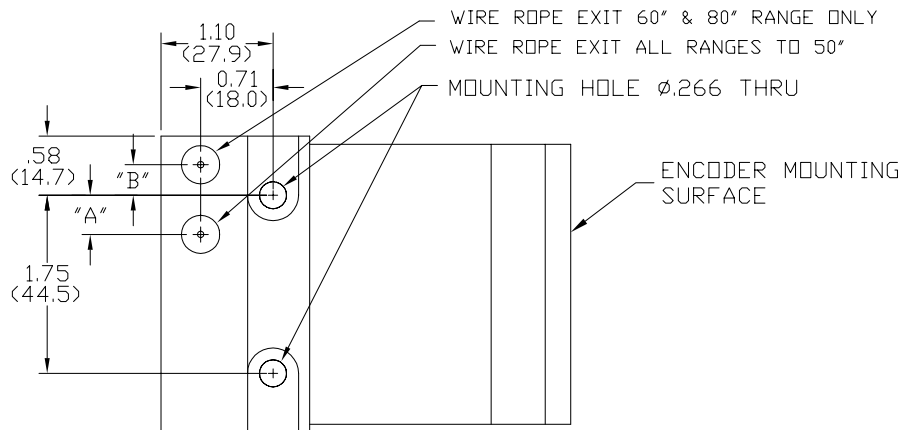| RANGE	"A"	"B"
2", 10"	.54 (13.7)	—
3", 15", 30"	.38 (9.6)	—
4", 20", 40"	.22 (5.6)	—
5", 25", 50"	.06 (1.5)	—
60"	—	.09 (2.3)
80"	—	.33 (8.4)

HXLR Encoder Mounting Instructions

Stegmann Encoder Model AG 626-XSR
Siemens Encoder Model 6FX 2001
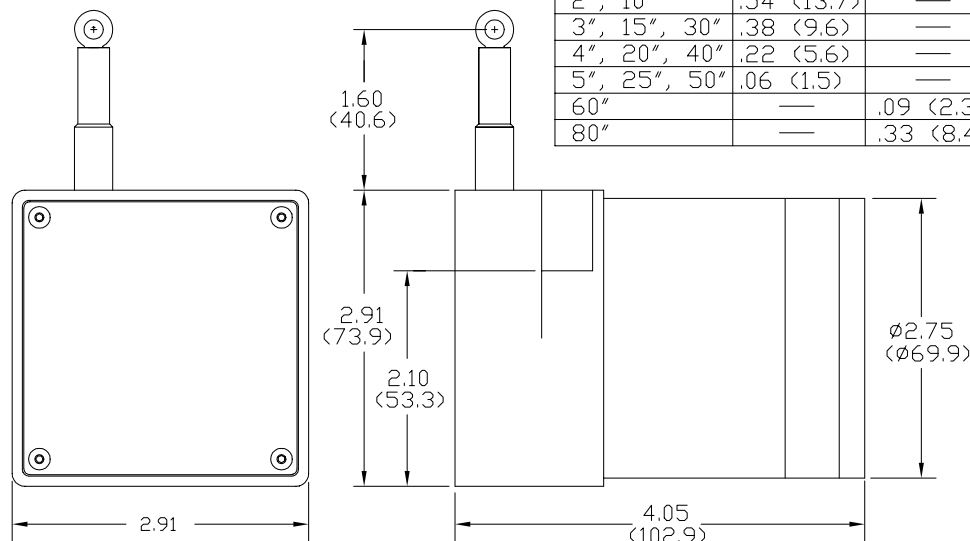## (Ranges 2" to 80", Adapter "D")

1. Remove 10-24 button head cap screw from barrel of module with 1/8" (.125") hex driver so that screw in shaft coupling may be accessed.
2. Place a .093" or 2.5 mm hex driver into the access hole for the coupling and seat into the coupling tightening screw. Back off the screw to remove any tension on the coupling.
3. Loosen four servo cleat mount screws with 3/32" (.093") hex driver so that the servo mounts may be rotated.
4. Remove o-ring from plastic bag and place into groove of encoder adapter plate on HXLR module.
5. Place Stegmann AG 626-XSR onto HXLR module so that shaft of encoder fits into coupling. Rotate servo cleats in place and tighten servo cleat screws to 8 lb-in.
6. Tighten screw in shaft coupling to 12 lb-in.
7. Loosen servo cleat screws to allow encoder to be rotated.
8. Rotate encoder to desired starting location and retighten servo cleat screws to 8 lb-in.
9. Re-install 10-24 button head cap screw into coupling access hole and tighten to 20 lb-in.

Dimensional Information

HXLR Module (Ranges to 80")

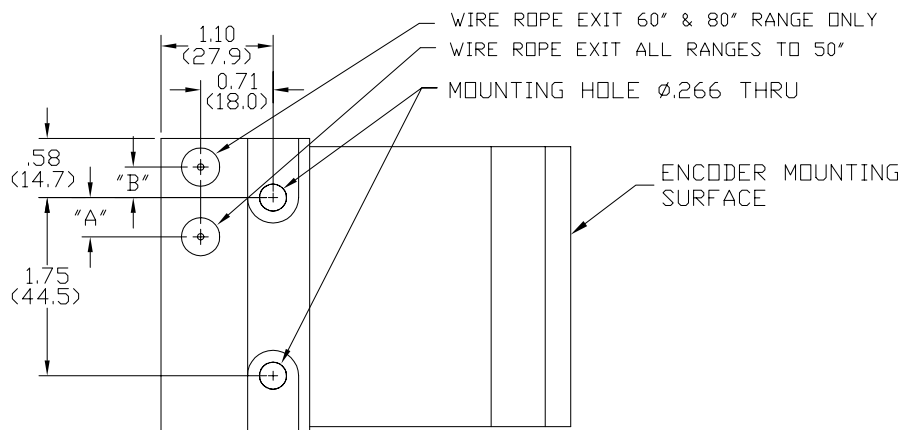| RANGE	"A"	"B"
2", 10"	.54 (13.7)	—
3", 15", 30"	.38 (9.6)	—
4", 20", 40"	.22 (5.6)	—
5", 25", 50"	.06 (1.5)	—
60"	—	.09 (2.3)
80"	—	.33 (8.4)

UniMeasure

HXLR Encoder Mounting Instructions

Balluff BDG 61 Internal Mount Encoder (Ranges 2" to 80", Adapter "F")
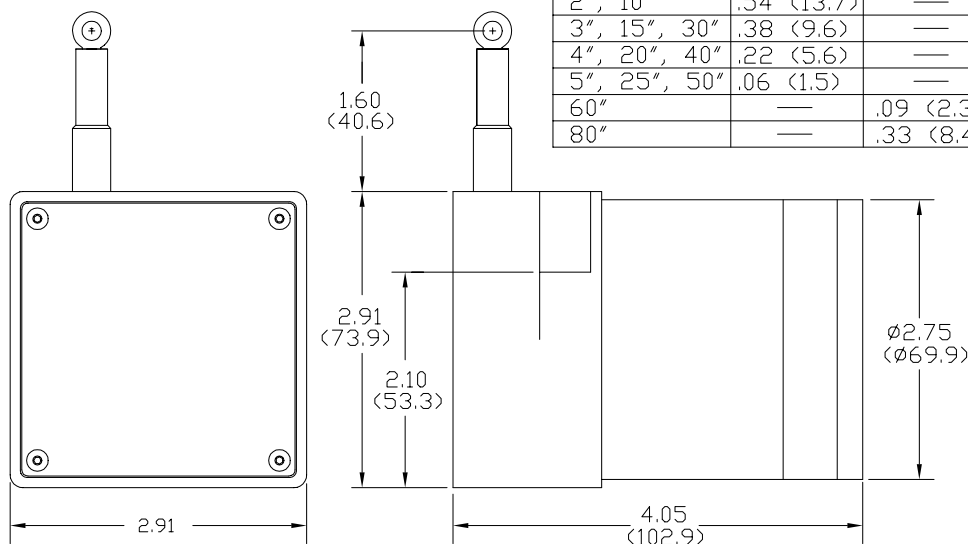
1. Remove all accompanying hardware from plastic bags.
2. Place thread sealant (Loctite 242 or equivalent) onto the three M3 screws. Place the smaller of the two o-rings into the corresponding groove in the Encoder Adapter Plate and with o-ring toward encoder, fasten Encoder Adapter Plate to encoder with M3 screws and tighten to 8 lb-in.
3. Remove 10-24 button head cap screw and nylon washer from HXLR module adapter housing so that the screw on the coupling may be accessed.
4. Insert a 7/64" hex driver into the coupling access hole and remove the 6-32 screw from the shaft coupling. Place thread sealant (Loctite 242 or equivalent) onto the screw threads and re-insert into the coupling but do not tighten.
5. Slide encoder assembly into shaft coupling and align the mounting holes in the Encoder Adapter Plate with the corresponding holes in the attachment plate on the HXLR module. Place thread sealant (Loctite 242 or equivalent) onto the four ¼-20 x .50" long screws, and fasten the encoder assembly in place. Tig-hten screws to approximately 30 lb-in.
6. Tighten the screw of the shaft coupling to 20 lb-in.
7. Place the 10-24 button head cap screw and nylon washer back into the coupling access hole and tighten to

Dimensional Information

HXLR Module (Ranges to 80")

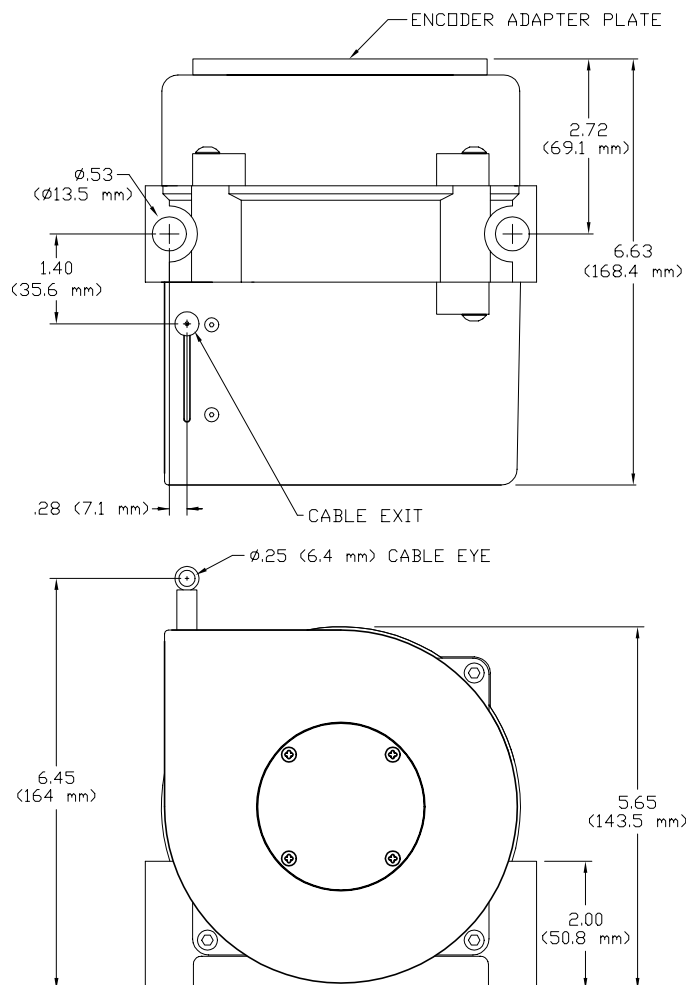| RANGE	"A"	"B"
2", 10"	.54 (13.7)	——
3", 15", 30"	.38 (9.6)	——
4", 20", 40"	.22 (5.6)	——
5", 25", 50"	.06 (1.5)	——
60"	——	.09 (2.3)
80"	——	.33 (8.4)

UniMeasure

HXLR Encoder Mounting Instructions

BEI H25D Flange Mount Encoder (Ranges 100" to 400", Adapter "A")

1. Remove o-ring from plastic bag and place into groove of encoder adapter plate on HXLR module.
2. Remove socket hex ¼ NPT pipe plug from plastic bag.
3. Insert a 7/64" hex driver into the ¼ NPT access hole on the encoder side of the module and remove the nearest 6-32 screw from the shaft coupling. Place thread sealant (Loctite 242 or equivalent) onto the screw threads and re-insert into the coupling but do not tighten.
4. Place the BEI encoder onto the module with shaft inserted into the coupling and secure with four sealant coated (Loctite 242 or equivalent) 10-24 x .50" long screws. **Caution: Using longer screws will damage the HXLR adapter housing.** Tighten screws to approximately 20 to 30 lb-in.
5. Tighten the screw of the shaft coupling to 20 lb-in.
6. Thread the ¼NPT pipe plug into the access hole of the adapter housing until it is more-or-less flush with the top of the housing.

Dimensional Information

HXLR Module—Ranges to 100" (2.5 m) to 400" (10.0 m)
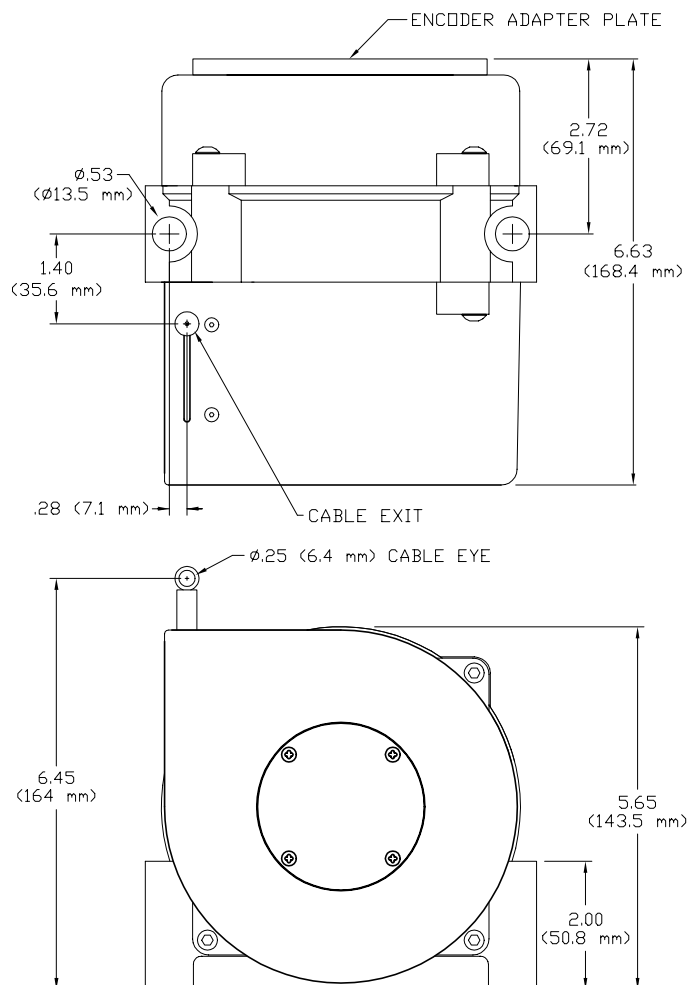

UniMeasure

HXLR Encoder Mounting Instructions

BEI H25E and H25G Flange Mount Encoder (Ranges 100" to 400", Adapter "B")

1. Remove o-ring from plastic bag and place into groove of encoder adapter plate on HXLR module.
2. Remove socket hex ¼ NPT pipe plug from plastic bag.
3. Insert a 7/64" hex driver into the ¼ NPT access hole on the encoder side of the module and remove the nearest 6-32 screw from the shaft coupling. Place thread sealant (Loctite 242 or equivalent) onto the screw threads and re-insert into the coupling but do not tighten.
4. Place the BEI encoder onto the module with shaft inserted into the coupling and secure with four servo mount cleats (supplied). Note that BEI encoder H25E will pilot in the center pilot hole of the adapter plate. With BEI encoder H25G, allow the encoder to self align in the coupling prior to fastening with servo cleats.
5. Tighten the screw of the shaft coupling to 20 lb-in.
6. Thread the ¼NPT pipe plug into the access hole of the adapter housing until it is more-or-less flush with the top of the housing.

Dimensional Information

HXLR Module—Ranges to 100" (2.5 m) to 400" (10.0 m)

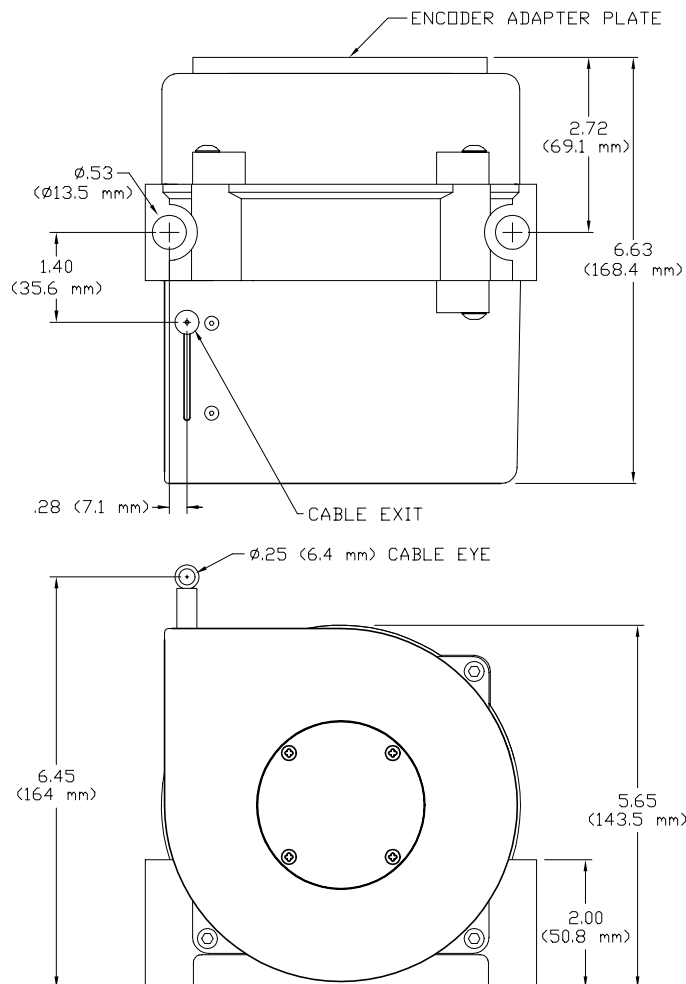UniMeasure

HXLR Encoder Mounting Instructions

Computer Conversions Corp. Encoder Model HMR90-64T-CR
(Ranges 100" to 400", Adapter "C")

To mount the Computer Conversions Corp. encoder HMR90-64T-CR:
1. Remove o-ring from plastic bag and place into groove of encoder adapter plate on HXLR module.
2. Remove socket hex ¼ NPT pipe plug from plastic bag.
3. With a 7/64" hex driver, remove the nearest 6-32 screw from the shaft coupling in the HXLR module. Place thread sealant (Loctite 242 or equivalent) onto the screw threads and re-insert into the coupling but do not tighten.
4. Computer Conversions Corp. encoder HMR90-64T-CR mounts with four ¼-20 screws 0.625" (5/8") long. **Caution: Using longer screws will damage the HXLR adapter housing.**
5. Rotate shaft of the Computer Conversions Corp. encoder to the desired starting position and carefully place into the coupling on the HXLR module.
6. With thread sealant (Loctite 242 or equivalent) on the four ¼-20 screws, secure the encoder in place. Tighten to approximately 30 to 50 lb-in.
7. Tighten the screw of the shaft coupling to 20 lb-in.
8. Thread the ¼NPT pipe plug into the access hole of the adapter housing until it is more-or-less flush with the top of the housing.

Dimensional Information

HXLR Module—Ranges to 100" (2.5 m) to 400" (10.0 m)
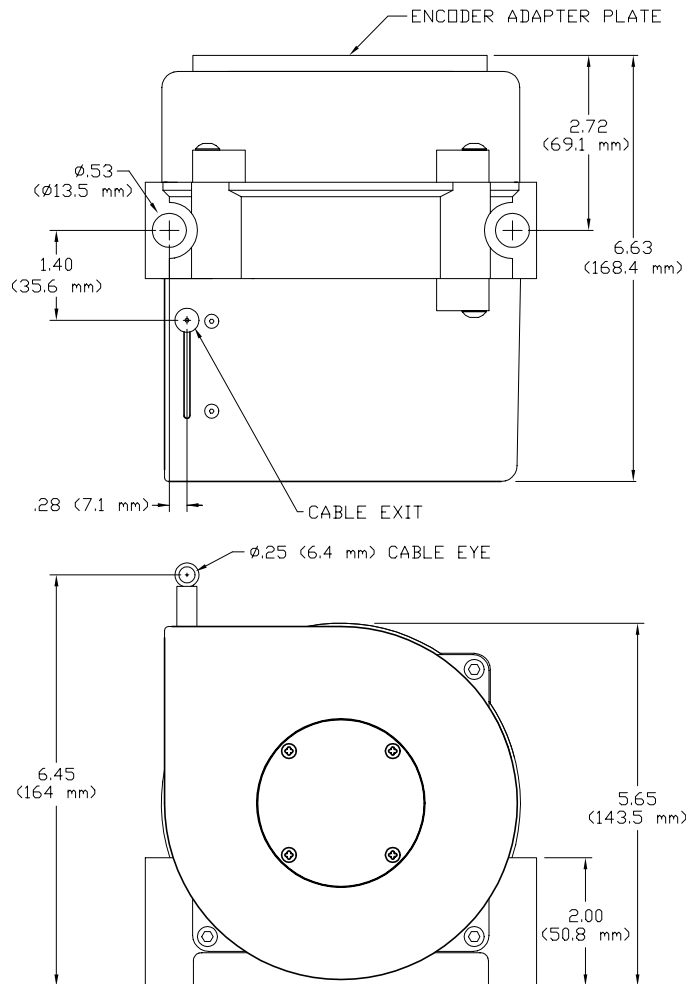

UniMeasure

HXLR Encoder Mounting Instructions

Stegmann Encoder Model AG 626-XSR (Ranges 100" to 400", Adapter "D")

1. Place a 3 mm hex driver or T15 Torx driver into the Adapter Housing access hole for the coupling and seat into the coupling tightening screw. Back off the screw to remove any tension on the coupling.
2. Loosen four servo cleat mount screws with 3/32" (.093") hex driver so that the servo mounts may be rotated.
3. Remove o-ring from plastic bag and place into groove of encoder adapter plate on HXLR module.
4. Place Stegmann AG 626-XSR onto HXLR module so that shaft of encoder fits into coupling. Rotate servo cleats in place and tighten servo cleat screws to 8 lb-in.
5. Tighten screw in shaft coupling to 12 lb-in.
6. Loosen servo cleat screws to allow encoder to be rotated.
7. Rotate encoder to desired starting location and retighten servo cleat screws to 8 lb-in.
8. Remove socket hex ¼ NPT pipe plug from plastic bag.
9. Thread the ¼NPT pipe plug into the access hole of the Adapter Housing until it is more-or-less flush with the top of the housing.

Dimensional Information

HXLR Module—Ranges to 100" (2.5 m) to 400" (10.0 m)

UniMeasure

DSPM Industria
sensori & trasduttori

Via Paolo Uccello 4 - 20148 Milano
Tel +39 02 48 009 757   Fax +39 02 48 002 070   info@dspmindustria.it   www.dspmindustria.it
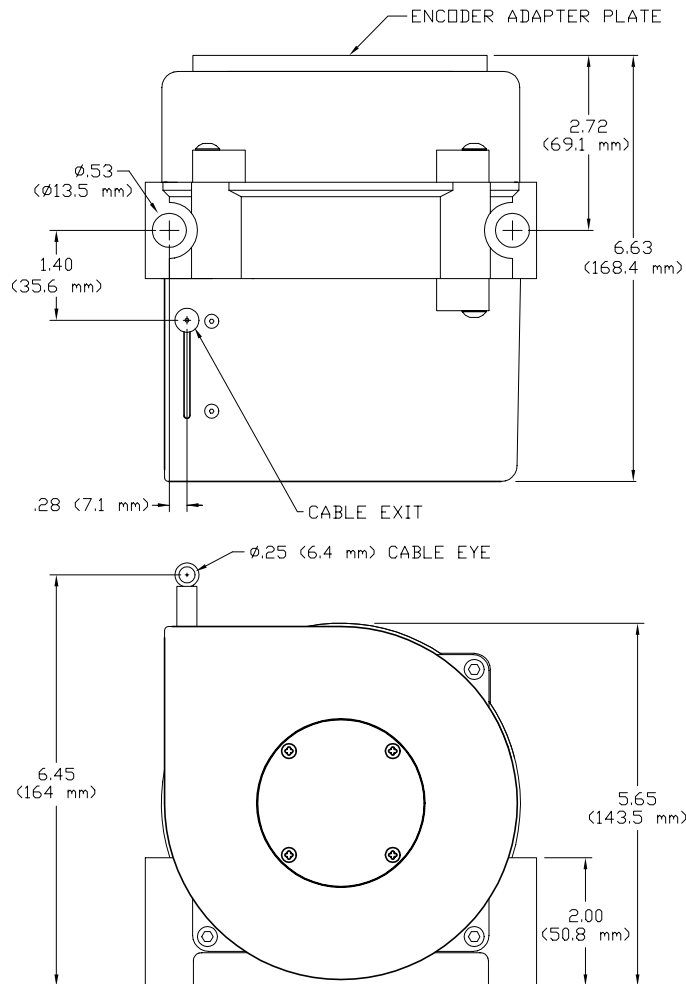
HXLR Encoder Mounting Instructions

Pepperl+Fuchs TRD-G Series Servo Mount (Ranges 100" to 400", Adapter "E")

1. With a 7/64" hex driver, remove the nearest 6-32 screw from the shaft coupling in the HXLR module. Place thread sealant (Loctite 242 or equivalent) onto the screw threads and re-insert into the coupling but do not tighten.
2. Loosen four servo cleat mount screws with Philips driver so that the servo mounts may be rotated.
3. Remove o-ring from plastic bag and place into groove of encoder adapter plate on HXLR module.
4. Place encoder onto HXLR module so that shaft of encoder fits into coupling. Rotate servo cleats in place and tighten servo cleat screws to 8 lb-in.
5. With a 7/64" hex driver, tighten screw in shaft coupling to 12 lb-in.
6. Loosen servo cleat screws to allow encoder to be rotated.
7. Rotate encoder to desired starting location and retighten servo cleat screws to 8 lb-in.
8. Remove socket hex ¼ NPT pipe plug from plastic bag.
9. Thread the ¼NPT pipe plug into the access hole of the Adapter Housing until it is more-or-less flush with the top of the housing.

Dimensional Information

HXLR Module—Ranges to 100" (2.5 m) to 400" (10.0 m)