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TURCK

EZ-track[®]
LT Q35 Installation Manual

Manual



Preface

The Q35 is a housing option available for all Q21 EZ-track Linear Displacement Transducers. In this manual you will find all necessary dimension and mounting drawings. Wiring and programming details along with electrical specifications can be located in the respective Q21 Installation & Programming Manual. Please refer to Turck's website, www.turck.com to search by the respective Q21 part key to obtain the appropriate manual.

EZ-track Q35 to Q21 cross reference table

Q35 part key	Q21 Part Key	LDT output type	Q21 manual cross-reference for programming instructions
LT*Q35*H1141	LT*Q21*H1141	Standard Analog	B1401
LT*Q35R*H1151	LT*Q21R*H1151	Enhanced Analog	B1402
LT*Q35-DQ*H11121	LT*Q21-DQ*H11121	Quadrature	B1403
LT*Q35D*H1161	LT*Q21D*H1161	Digital	B1404

*equals undefined options for each part

Introduction

The Q35 is an exclusive two chamber industrial rod and barrel style enclosure for the Q21 EZ-track Linear Displacement Transducers. The electronics are isolated in a chamber that has an IP67 or optional IP68 rating. The piston is housed in the second chamber which has an IP65 rating. The units are available up to a stroke length of 36 inches. The 316 stainless steel rod or piston is .375" in diameter and has 1/4"-28 threads extending from the extrusion for easy installation. The opposing end of the rod is a piston with a magnet permanently affixed that slides easily through PTFE bearing assembly. As the magnet is moved it is sensed by the electronics in the other chamber and converted to a useable output.

CAUTION:

Disconnect power before servicing. The Q35 EZ-track LDT contains no serviceable components. Consult factory for repair or replacement.

Note:

The Q35 is NOT FM approved for Class I Div II applications.

Mounting

The Q35 is available with optional mounting feet. When using the standard **MB-Q21** mounting feet, the distance from the bottom of the foot to the center of the piston rod is .315". The mounting feet simply slide into the grooves on the Q35 extrusion and clamp down when tightened.

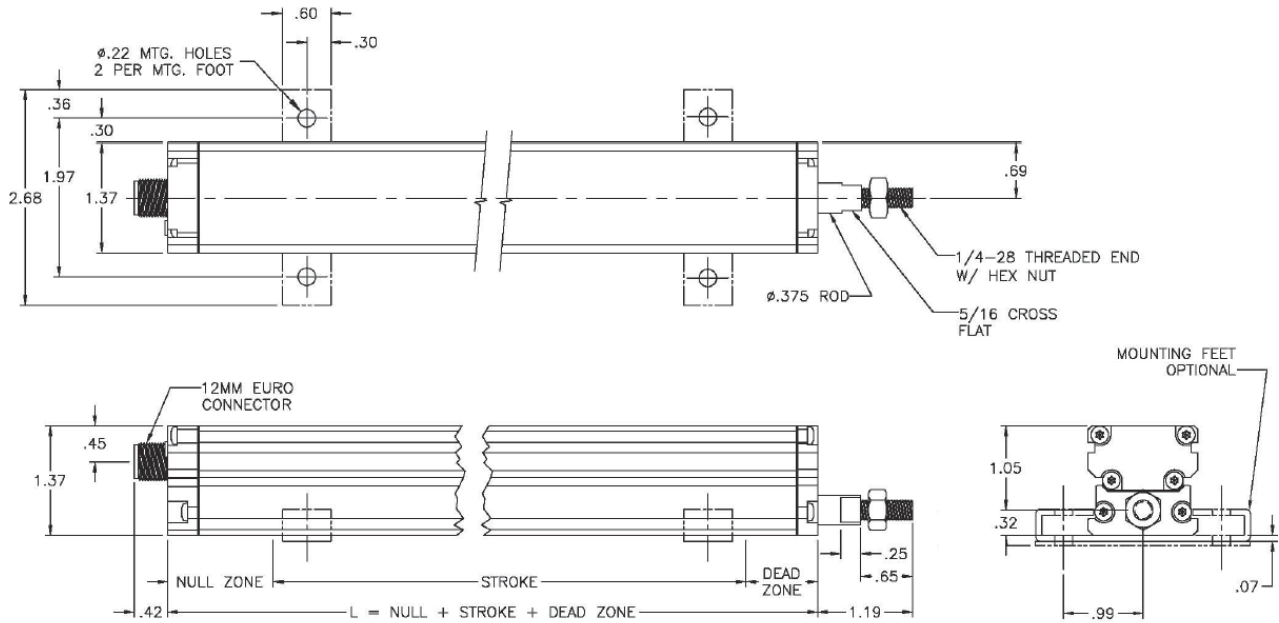
The Q35 LDT comes standard with a 1/4"-28 UNC thread and a flat across the piston for attaching it to a moving member of the machine. Optional rod ends are available for ease of mounting and alignment.

When the Q35 LDT leaves the factory it is programmed for the specific stroke length. However, the mechanical stroke of the piston is greater than the specified stroke length to help prevent damage that could occur to the unit if over-stroked.

When the piston is fully retracted, the magnet assembly will be at 3/8" (.375") into the Null Zone. When mounting, or if you plan to re-program the unit, it is very important to stay out of this area.

To determine the usable portion of the unit, fully retract the piston assembly, then pull it out 3/8" and mark this location on the piston with either a pencil or a marker. From this point, extend the piston by the active stroke length specified in the part number on the product label. Again, mark this location on the piston.

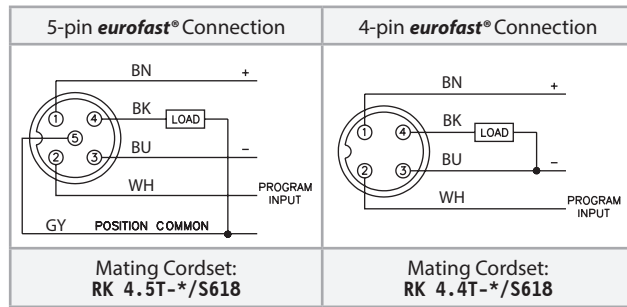
The area between the two marks on the piston is the sensors active stroke range. To re-program the units active stroke, please refer to the programming guide located in the respective Q21 manual.



NOTE: SEE PROBE SPECIFICATION FOR NULL & DEAD ZONE DIMENSIONS.

**Wiring Diagrams:
Q21R/Q35R**

Q21/Q35




* Length in meters.

Turck has checked the accuracy of this manual at the time it was approved for printing. However, this manual may not provide all possible ways of installing and maintaining the LDT. Any errors found in this manual or additional possibilities to the installation and maintenance of the LDT will be added in subsequent editions. Any comments you have for the improvement of this manual are welcomed.

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