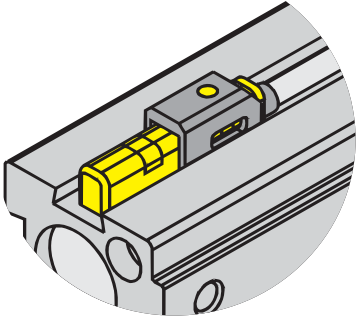

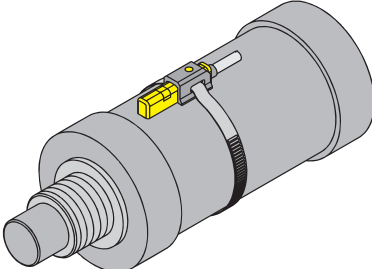
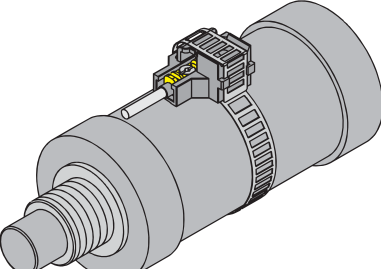


# Inductive Cylinder Position Sensors

Drawing	Manufacturer	Cylinder Series	TURCK Sensor	TURCK Bracket
<b>Dovetail Style</b> 	Numatics	B,F, Compact C), Short Stroke, Rotary Actuator, Pee Wee (O, P, Q), VDMA-V, Ring Series	UNT Style	KLDT-UNT3
	PHD	O, CVA, CVB, CVC	UNT Style	KLDT-UNT2
	Norgren	90000, 91000, 92000, 93000, Lite (A44000)	UNT Style	KLDT-UNT3
	Fabco-Air	Global (G, GT)	UNT Style	KLDT-UNT2
		Square 1 (SQ, SQF, SQL), Pancake (X,XK, O, OP, XDR, XDRK, ODR), Linear Slide <sup>1</sup> (GB, L, S, E, SE, EZ, TS) <sup>2</sup>	INR Style	KLFA-1 <sup>2</sup>
	Compact Air	Inch Series (AB, AS, AR, AT), Inch Series (B, R, S, T) <sup>3</sup> , Ball Slide (BSC), GC, CD, ACLA, ACLAD, (CLA, CLAD) <sup>3</sup> , Metric Series (AWS, AWB, AWT), Metric Series (WS, WB, WT) <sup>3</sup> , B/Base Mount, S/End Mount, R/ End Mount, (CSC, PSC, TCL) <sup>4</sup>	UNT Style	KLDT-UNT4
	Turn-Act	Guided-Rod Series	UNT	KLDT-UNT5
SMC	CP95	UNT	KLDT-UNT6	

1. Some of these may also be equipped to handle 5, 8 or 12 mm inductive proximity sensors.
2. This Mounting is to be used only when "Dovetail Style Mounting Rail" is present on the cylinder.
3. These styles are usually not available with magnets.
4. This mounting is to be used only when "Sensor Mounting Rail" is present on the collet.

Drawing	Manufacturer	Cylinder Series	TURCK Sensor	TURCK Bracket	
<p><b>Round Style</b></p>   <p><b>KLDT w/ASB Strap (Table 1)</b></p>  <p><b>KLRC-UNT* (Table 2)</b></p>	Numatics	M	UNT Style	KLRC-UNT* <sup>4</sup>	KLDT with ASB clamp <sup>2</sup>
			INR Style	KLRC-2 with ASB Clamp <sup>2</sup>	
	Parker	P, SRM, SRDM, XLT, XLR, XLB, (S, SRD) <sup>3</sup>	UNT Style	KLRC-UNT* <sup>4</sup>	KLDT with ASB clamp <sup>2</sup>
			INR Style	KLRC-2 with ASB Clamp <sup>2</sup>	
	Festo	CRDG, CRDSNU, CRDSW, DSNU, DSNUL, DSEU, ESEU, ESNU, ESW, (DSN, DSW, EG, EGZ, ESN) <sup>3</sup>	UNT Style	KLRC-UNT* <sup>4</sup>	KLDT with ASB clamp <sup>2</sup>
			INR Style	KLRC-2 with ASB Clamp <sup>2</sup>	
	Bimba	Original Line II (OL2), Original Line (M, MH, MNR, MC, MRS), Double Wall (DW, DWD, DWN, DWM), PC, Z Series (MO4, MO9, M17, M31), Linear Thrusters (T, TE)	UNT Style	KLRC-UNT* <sup>4</sup>	KLDT with ASB clamp <sup>2</sup>
			INR Style	KLRC-2 with ASB Clamp <sup>2</sup>	
	SMC	NCM, NCJ2, NCG, NCA1, CJ2, CM2, CG1, MGG	UNT Style	KLRC-UNT* <sup>4</sup>	KLDT with ASB clamp <sup>2</sup>
			INR Style	KLRC-2 with ASB Clamp <sup>2</sup>	
	Norgren	Round Line (RL)	UNT Style	KLRC-UNT* <sup>4</sup>	KLDT with ASB clamp <sup>2</sup>
			INR Style	KLRC-2 with ASB Clamp <sup>2</sup>	
	Fabco-Air	Pancake (X, XK, O, OP, XDR, XDRK, ODR), Linear Slide (L, S, E,)	UNT Style	KLRC-UNT* <sup>4</sup>	KLDT with ASB clamp <sup>2</sup>
			INR Style	KLRC-2 with ASB Clamp <sup>2</sup>	

1. This mounting is to be used only when "Switch Rail" is present on the cylinder.
2. ASB size is determined by the cylinder diameter. See table 1. KLDT is required when BIM/UNT has integral quick disconnect.
3. These styles are usually not available with magnets.
4. Bracket size determined by the cylinder diameter. See table 2.

**Table 1: UNT Housing with KLDT-UNT and ASB Style Strap**


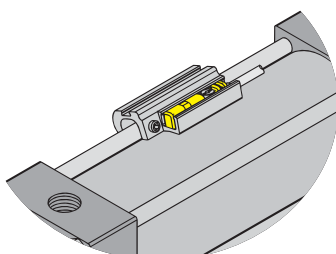

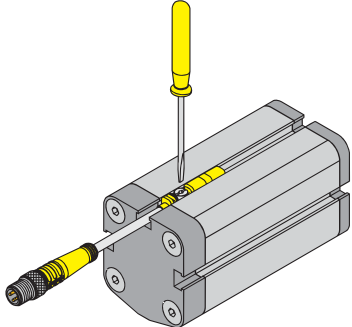
Cylinder Diameter		Clamp (Stainless Steel)
Inches	mm	
.276-.433	7-11 mm	ASB-1
.433-.748	11-19 mm	ASB-2
.709-1.142	18-29 mm	ASB-3
1.102-1.535	28-39 mm	ASB-4
1.496-1.929	38-49 mm	ASB-5
1.890-2.323	48-59 mm	ASB-6
2.283-2.717	58-69 mm	ASB-7
2.677-3.110	68-79 mm	ASB-8
3.071-3.504	78-89 mm	ASB-9

**Table 2: UNT Housing with KLRC-UNT\***

Part Number	Cylinder Diameter	
	Inches	mm
KLRC-UNT1	.315-.984	8-25
KLRC-UNT2	.984-2.480	25-63
KLRC-UNT3	2.480-5.118	63-130

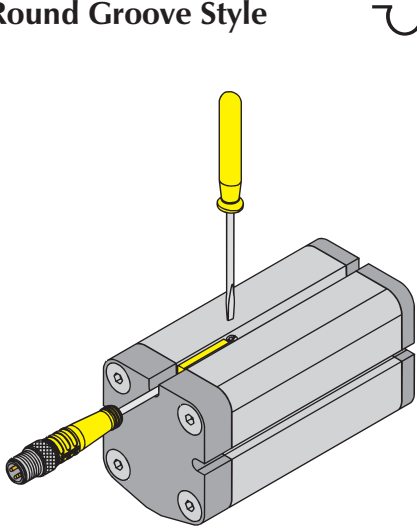
Cylinder

# Inductive Cylinder Position Sensors

Drawing	Manufacturer	Cylinder Series	TURCK Sensor	TURCK Bracket
<b>Tie Rod Style</b>   <b>KLZ* (Table 1)</b>	Numatics	A, E, S, L, B Square, VDMA-Z	UNT Style	KLZ Series Clamp <sup>1</sup>
	Parker	P5E, HBT, LPM, (S, C, LP) <sup>2</sup>	UNT Style	KLZ Series Clamp <sup>1</sup>
	PHD	A2, A3, AS, AV, AV2, A3V, AVS, HV, HV2, H3V, HVS, DAV, DHV, EA, EL, EH, ES, NPG, NHG, NEAG, NEHG, TD, (A) <sup>2</sup>	UNT Style	KLZ Series Clamp <sup>1</sup>
	Festo	DNGU, DNGUL, DNGUT, DNU, DNUL, CRDNG, CRDNGS, DNG, DNGL, DNGZK, DNGZL, DNGZS, DKE	UNT Style	KLZ Series Clamp <sup>1</sup>
	Bimba	Flat-I (FO, FOD, FOP, FOR, FOS, FS, FSD, FSR, FSS, F02, F03, F04, Flat-II (FT, FST)	UNT Style	KLZ Series Clamp <sup>1</sup>
	SMC	ECQ2, MB, C95	UNT Style	KLZ Series Clamp <sup>1</sup>
	Norgren	A, EA, SS, N, J, EJ, 8000/M	UNT Style	KLZ Series Clamp <sup>1</sup>
	Turn-Act	NFPA Series	UNT Style	KLZ Series Clamp <sup>1</sup>
	Fabco-Air	Long Stroke (321, 521, 721, 1221, S321, S521, S721, S1221), Hi-Power (HP, THP, UHP), Multi-Power (MP, BA, BP), Linear Slide <sup>3</sup> (SE, EZ, TS)	UNT Style	KLZ Series Clamp <sup>1</sup>
<b>"T" Groove Style</b>  	Parker	P1M, P5T, SST	UNT Style	No Additional Bracket Required
			INR Style	KLT-1 Clamp
	Festo	DNC, DNCT, DFM, DPZ, DPZJ, DZF, EZH, ADVU, ADVULQ, ADVUL	UNT Style	No Additional Bracket Required
			INR Style	KLT-1 Clamp
	SMC	CUJ, CXS, MGQ, MY1B, MHC, MHL2	UNT Style	No Additional Bracket Required
			INR Style	KLT-1 Clamp

1. When using KLZ Series Clamps, user must determine clamp size best suited for application.
2. These styles are usually not available with magnets.
3. Some of these may be equipped to handle 5, 8 or 12 mm inductive proximity sensors.

Part Number	Tie Rod Diameter Maximum	
	Inches	mm
KLZ1A-INT	.236	6.0
KLZ1-INT	.295	7.5
KLZ2-INT	.374	9.5
KLZ3-INT	.433	11.0

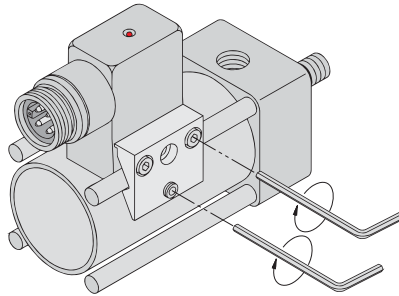
Drawing	Manufacturer	Cylinder Series	TURCK Sensor	TURCK Bracket
<p><b>Round Groove Style</b></p> 	Numatics	K	INR Style	No Additional Bracket Required
			UNR Style	
	Festo	ADVC	INR Style	No Additional Bracket Required
			UNR Style	
	Bimba	Twin Bore (TB, TBA, TBD), EF1 Series (EF, EFD, EFS, EFR), EF2 Series (EFT), PneuMoment Series (PM)	INR Style	No Additional Bracket Required
			UNR Style	
	SMC	(CQ2, CQS, NCDQ2, NCQ2) <sup>1</sup> , (CDQ2) <sup>1</sup> , CU, CUK, CUW, MU, MHF2, Air slides (MXQ)	INR Style	No Additional Bracket Required KLTR-1 Optional
			UNR Style	No Additional Bracket Required
	Compact Air	B, C	INR Style	No Additional Bracket Required
			UNR Style	
	PHD	CRS O Groove	INR Style	KLTR-1
			UNR Style	No Additional Bracket Required

1. CQ2, NC(D)Q2, CQS, NCQ2 cylinders may have multiple grooves and may not all be suited for the INR.

# Inductive Cylinder Position Sensors

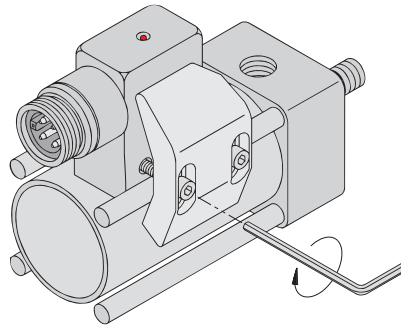
## A23 Housing with KLU-1 Clamp

<b>Cylinder Diameter</b>	1.26 - 3.15 inches 32 - 80 mm
<b>Rod Diameter</b>	0.16 - 0.35 inches 4 - 9 mm
<b>Clamp</b>	KLU-1 (Aluminum)



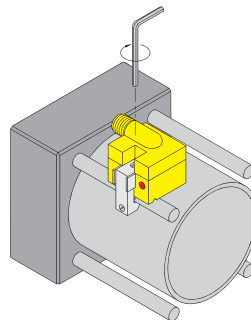
## A23 Housing with KLU-2 Clamp

<b>Cylinder Diameter</b>	1.57 - 7.87 inches 40 - 200 mm
<b>Rod Diameter</b>	0.24 - 0.63 inches 6 - 16 mm
<b>Clamp</b>	KLU-2 (Die-cast Zinc)



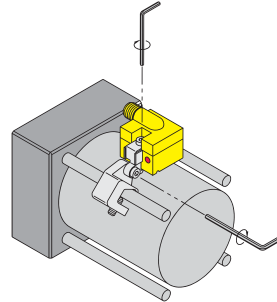
## AKT Housing with KLA-1 or KLA-3M Clamp

<b>Cylinder Diameter</b>	1.26 - 1.97 inches 32 - 50 mm
<b>Rod Diameter</b>	0.16 - 0.31 inches 4 - 8 mm
<b>Clamp</b>	KLA-1 (Aluminum) KLA-3 (Stainless Steel)



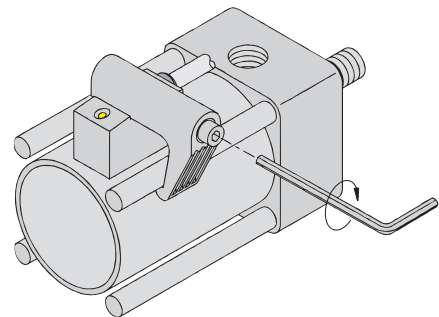
### AKT Housing with KLA-2 Clamp

<b>Cylinder Diameter</b>	1.57 - 4.92 inches 40 - 125 mm
<b>Rod Diameter</b>	0.28 - 0.51 inches 7 - 13 mm
<b>Clamp</b>	KLA-2 (Die-cast Zinc)



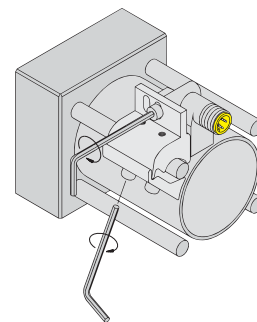
### IKE, IKT and IKM Housing with KLI-1 or KLI-3 Clamp

<b>Cylinder Diameter</b>	1.26 - 3.94 inches 32 - 100 mm	2.48 - 6.30 inches 63 - 160 mm
<b>Rod Diameter</b>	0.16 - 0.51 inches 4 - 13 mm	0.24 - 0.63 inches 6 - 16 mm
<b>Clamp</b>	KLI-1 (Die-cast Zinc)	KLI-3 (Die-cast Zinc)



### IKE, IKT and IKM Housing with KLI-5Z or KLI-6Z Clamp

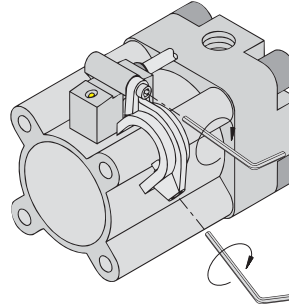
<b>Cylinder Diameter</b>	1.26 - 2.48 inches 32 - 63 mm	1.97 - 4.92 inches 50 - 125 mm
<b>Rod Diameter</b>	0.16 - 0.31 inches 4 - 8 mm	0.24 - 0.51 inches 6 - 13 mm
<b>Clamp</b>	KLI-5Z (Aluminum)	KLI-6Z (Aluminum)



# Inductive Cylinder Position Sensors

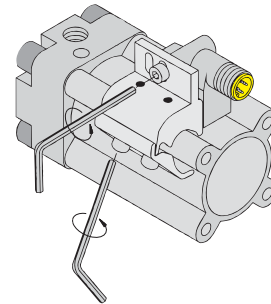
## IKE, IKT and IKM Housing with KLI-2 Clamp

<b>Cylinder Diameter</b>	1.26 - 3.94 inches 32 - 100 mm
<b>Rod Diameter</b>	0.35 - 0.79 inches 9 - 20 mm
<b>Clamp</b>	KLI-2 (Die-cast Zinc)



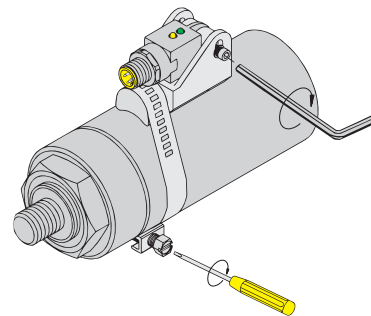
## IKE, IKT and IKM Housing with KLI-5 or KLI-6 Clamp

<b>Cylinder Diameter</b>	1.26 - 1.97 inches 32 - 50 mm	1.97 - 3.94 inches 50 - 100 mm
<b>Rod Diameter</b>	0.31 - 0.55 inches 8 - 14 mm	0.43 - 0.75 inches 11 - 19 mm
<b>Clamp</b>	KLI-5 (Aluminum)	KLI-6 (Aluminum)



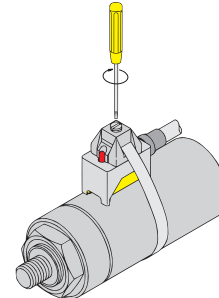
## IKE, IKT and IKM Housing with KLI-CB64 or KLI-CB124 Clamp

<b>Cylinder Diameter</b>	0.79 - 2.52 inches 20 - 64 mm	0.79 - 4.88 inches 20 - 124 mm
<b>Clamp</b>	KLI-CB64 (Stainless Steel/Steel)	KLI-CB124 (Stainless Steel/Steel)



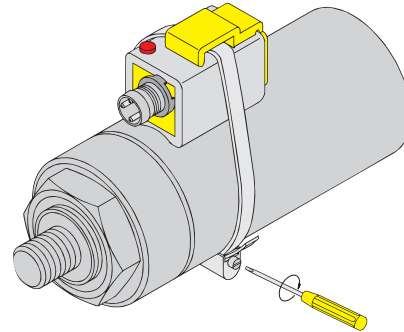
### KST Housing with KST-SB170 and KST-SB335 Clamps

<b>Cylinder Diameter</b>	0.31 - 0.99 inches 8 - 25 mm	0.31 - 3.15 inches 8 - 80 mm
<b>Strap</b>	KST-SB170 (Stainless Steel)	KST-SB335 (Stainless Steel)
<b>Mount</b>	KST-MG (M4673500)	
<b>Screw Plate</b>	KST-SE (M4673600)	



### PSM Housing with ASB Style Strap

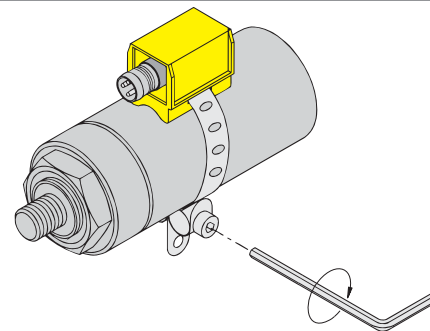
Bore		Clamp (Stainless Steel)	Cylinder Diameter
Inches	mm		
5/16	8	ASB-3	0-20 mm
3/8	10		
7/16	12		
5/8	16	ASB-4	15-30 mm
3/4	20		
1	25	ASB-5	25-40 mm
1-1/4	32		
1-1/2	40	ASB-6	35-50 mm
2	50	ASB-7	45-60 mm
2-1/2	63	ASB-9	55-80 mm



### PST Housing with KLP80-VA and KLP200-VA Clamps

<b>Cylinder Diameter</b>	0.31 - 3.15 inches 8 - 80 mm	3.15 - 7.87 inches 80 - 200 mm
<b>Clamp</b>	KLP80-VA* (Stainless steel band, brass nuts)	KLP200-VA (Stainless steel band, brass nuts)

\* Clamp included with sensor.

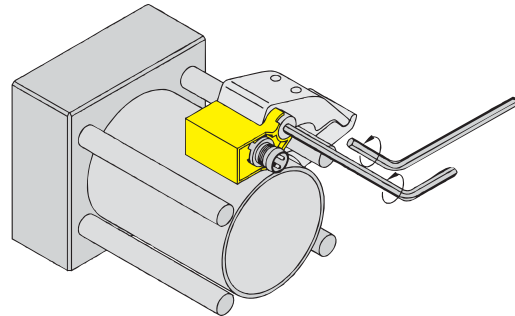


Cylinder

# Inductive Cylinder Position Sensors

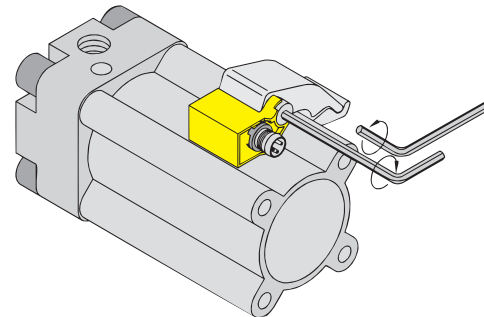
## QST Housing with KLQ-1Z or KLQ-2Z Clamps

<b>Cylinder Diameter</b>	1.26 - 2.48 inches 32 - 63 mm	1.97 - 4.92 inches 50 - 125 mm
<b>Rod Diameter</b>	0.16 - 0.31 inches 4 - 8 mm	0.24 - 0.51 inches 6 - 13 mm
<b>Clamp</b>	KLQ-1Z (Anodized Aluminum)	KLQ-2Z (Anodized Aluminum)



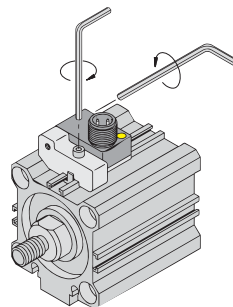
## QST Housing with KLQ-1 or KLQ-2 Clamps

<b>Cylinder Diameter</b>	1.26 - 1.97 inches 32 - 50 mm	1.97 - 3.94 inches 50 - 100 mm
<b>Rod Diameter</b>	0.31 - 0.55 inches 8 - 14 mm	0.43 - 0.75 inches 11 - 19 mm
<b>Clamp</b>	KLQ-1 (Anodized Aluminum)	KLQ-2 (Anodized Aluminum)



## NST Housing with SMC-325 Clamp

<b>Cylinder Diameter</b>	0.47 - 3.94 inches 12 - 100 mm
<b>Cylinder Manufacturer</b>	SMC
<b>Cylinder Family</b>	NCDQ2
<b>Clamp</b>	SMC-325 (Anodized Aluminum)



NST Housing with KLN-3 Clamp	
Cylinder Diameter	0.47 - 3.94 inches 12 - 100 mm
Groove Diameter	0.20 - 0.53 (0.83) inches 5.2 - 13.5 (21)* mm
Clamp	KLN-3 (Anodized Aluminum)
*Accessory	Longer M5 x 35 set screw (A0050)

