

Accessories Selection Guide

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We reserve the right to make technical alterations without prior notice.



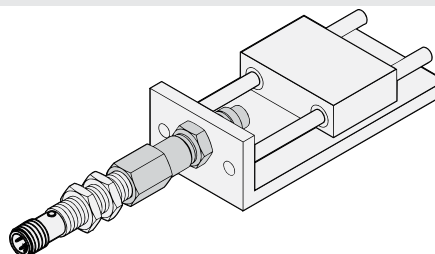
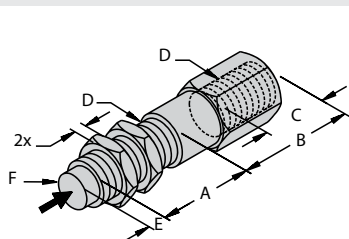
Accessories Selection Guide

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Accessories

Die Protector



Part Number	ID Number	A	B	C	D	E	F
DP-08-25-08	A2521	0.98 [25.0]	1.25 [31.8]	0.66 [16.7]	M8x1	0.17 [4.3]	0.44 [11.1]
DP-08-50-08	A9473	1.97 [50.0]	1.25 [31.8]	0.66 [16.7]	M8x1	0.17 [4.3]	0.44 [11.1]
DP-12-25-12	A2519	0.98 [25.0]	1.25 [31.8]	0.66 [16.7]	M12x1	0.17 [4.3]	0.62 [15.7]
DP-12-50-12	A9169	1.97 [50.0]	1.25 [31.8]	0.66 [16.7]	M12x1	0.17 [4.3]	0.62 [15.7]
DP-18-25-18	A2520	0.98 [25.0]	1.25 [31.8]	0.66 [16.7]	M18x1	0.17 [4.3]	0.87 [22.1]
DP-18-75-18	A9527	2.95 [75.0]	1.25 [31.8]	0.66 [16.7]	M18x1	0.17 [4.3]	0.87 [22.1]

Inches [mm]

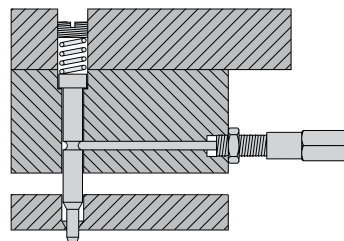
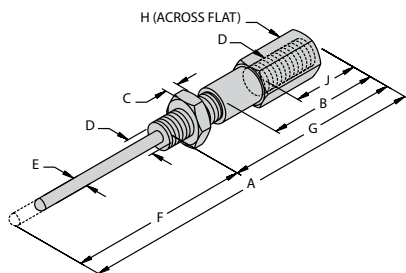
Spring rate for plunger actuation: 9 oz

Recommended Sensors for Die Protector

Die Protector	DP-08-25-08	DP-12-25-12	DP-18-25-18
Sensors	Bi1.5U-EG08-AP6X Bi2-EG08-AP6X	Bi2-G12-AP6X-H1141	Bi5-G18-AP6X (When not fully engaged)

Note: Works with all shielded NPN, PNP, quick disconnect or potted-in-cable versions of the listed part numbers.

Whisker Probe



Part Number	ID Number	A	B	C	D	E	F	G	H	J
WP-08-50-03	A2527	3.92 [99.6]	1.25 [31.8]	0.15 [3.8]	M8x1	0.13 [3.2]	2.00 [50.8]	1.95 [49.5]	0.44 [11.1]	0.86 [21.8]
WP-12-50-03	A2528	3.92 [99.6]	1.25 [31.8]	0.15 [3.8]	M12x1	0.13 [3.2]	2.00 [50.8]	1.95 [49.5]	0.44 [11.1]	0.86 [21.8]
WP-12-50-06	A2529	3.92 [99.6]	1.25 [31.8]	0.15 [3.8]	M12x1	0.25 [6.4]	2.00 [50.8]	1.95 [49.5]	0.62 [15.8]	0.71 [18.0]
WP-12-100-06	A9195	5.91 [150]	1.25 [31.8]	0.15 [3.8]	M12x1	0.25 [6.4]	4.00 [102]	1.95 [49.5]	0.62 [15.8]	0.71 [18.0]

Inches [mm]

Recommended Sensors for Whisker Probe

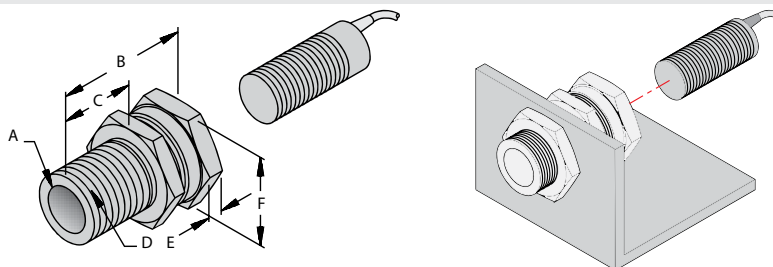
Whisker Probe	WP-08-50-03	WP-12-50-03	WP-12-50-06
Sensors	Bi1-G08-AN6 Bi1.5-G08-AP6X	Bi1.5U-EG08-AP6X Bi2-EG08-AP6X	Bi2-G12-AP6X-H1141 Bi3U-M12-AP6X-H1141

Note: Works with all shielded NPN, PNP, quick disconnect or potted-in-cable versions of the listed part numbers. Not for use with Upro3.



Accessories

Quick Mount

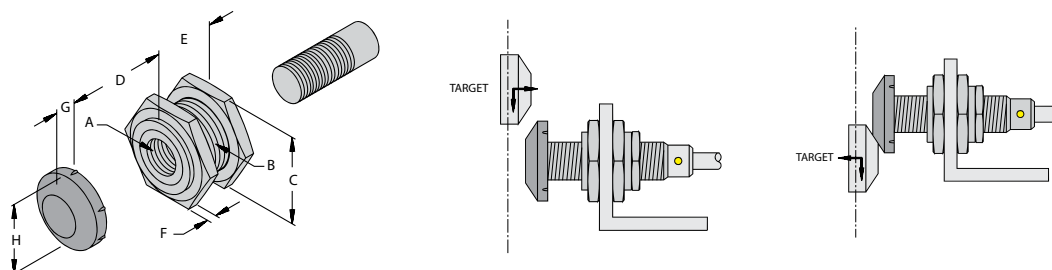


Part Number	ID Number	Features	A	B	C	D	E	F
QM-08	A2511	—	0.32 [8.18]	1.28 [32.4]	0.69 [17.5]	M12x1	0.15 [3.85]	0.67 [16.9]
QM-08L	A2512	Ext. Length	0.32 [8.18]	1.90 [48.0]	1.34 [34.0]	M12x1	0.15 [3.85]	0.67 [16.9]
QM-12	A2513	—	0.48 [12.1]	1.34 [33.7]	0.77 [19.5]	M16x1	0.16 [4.01]	0.86 [21.8]
QM-12L	A2514	Ext. Length	0.48 [12.1]	1.76 [44.8]	1.18 [30.0]	M16x1	0.16 [4.01]	0.86 [21.8]
QM-12L-T	A2542	Ext. Length, PTFE	0.48 [12.1]	1.76 [44.8]	1.18 [30.0]	M16x1	0.16 [4.01]	0.86 [21.8]
QM-18	A2515	—	0.71 [18.1]	1.52 [38.5]	0.79 [20.0]	M24x1.5	0.19 [4.95]	1.18 [30.0]
QM-18L	A2516	Ext. Length	0.71 [18.1]	2.28 [58.0]	1.57 [40.0]	M24x1.5	0.19 [4.95]	1.18 [30.0]
QM-18L-T	A2543	Ext. Length, PTFE	0.71 [18.1]	2.28 [58.0]	1.57 [40.0]	M24x1.5	0.19 [4.95]	1.18 [30.0]
QM-30	A2517	—	1.19 [30.1]	1.50 [35.0]	0.79 [20.0]	M36x1.5	0.24 [6.13]	1.61 [41.0]
QM-30L	A2518	Ext. Length	1.19 [30.1]	2.28 [58.0]	1.57 [40.0]	M36x1.5	0.24 [6.13]	1.61 [41.0]

Inches [mm]

Material: Nickel plated brass

Cushion Mount



Part Number	ID Number	A	B	C	D	E	F	G	H	Cap Part Number	Cap ID Number
		Inside Thread	Outside Thread	Across Flats	Max Allowable Overtravel						
CM-08	A2503	M8x1	M16x1.5	0.88 [22.2]	0.35 [8.89]	0.87 [22.1]	0.16 [3.94]	0.21 [5.33]	0.60 [15.2]	CAP-EN08	A6100
CM-08N	A2504									CAP-EN08N	A6200
CM-12	A2505	M12x1	M22x1.5	1.12 [28.6]	0.40 [10.0]	0.87 [22.1]	0.16 [4.06]	0.245 [6.22]	0.90 [22.9]	CAP-EN12	A6300
CM-12N	A2506									CAP-EN12N	A6300-1
CM-18	A2507	M18x1	M30x1.5	1.41 [35.8]	0.49 [12.4]	1.17 [29.7]	0.20 [5.10]	0.33 [8.38]	1.18 [30.0]	CAP-EN18	A6400
CM-18N	A2508									CAP-EN18N	A6400-1
CM-30	A2509	M30x1.5	M47x1.5	2.01 [51.0]	0.57 [14.5]	1.47 [37.3]	0.20 [5.10]	0.30 [7.62]	1.72 [43.7]	CAP-EN30	A 9567
CM-30N	A2510									—	—

Inches [mm]

Material: Anodized aluminum

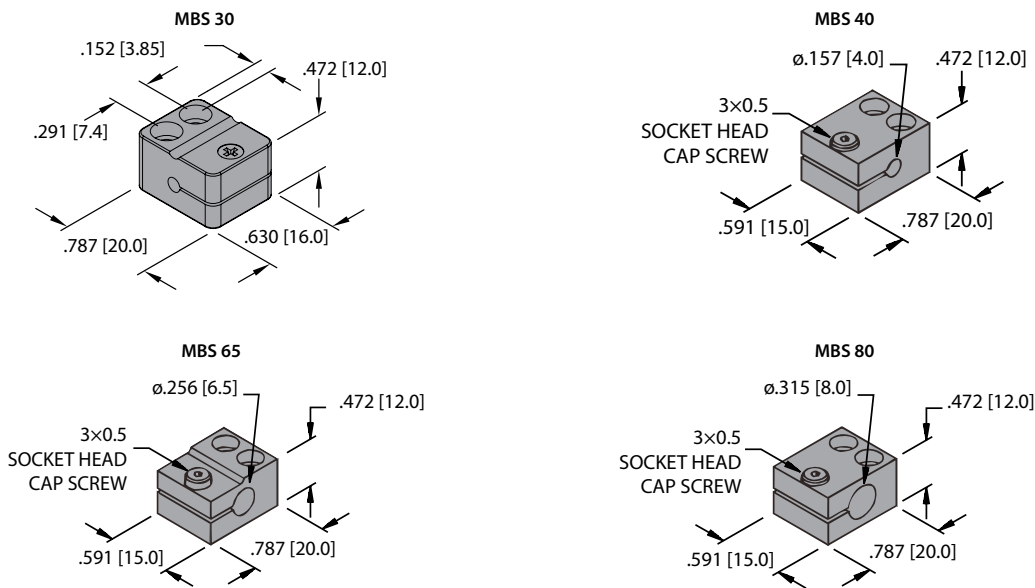
Cap: Plastic

Stainless Versions available (CM-*NSS)



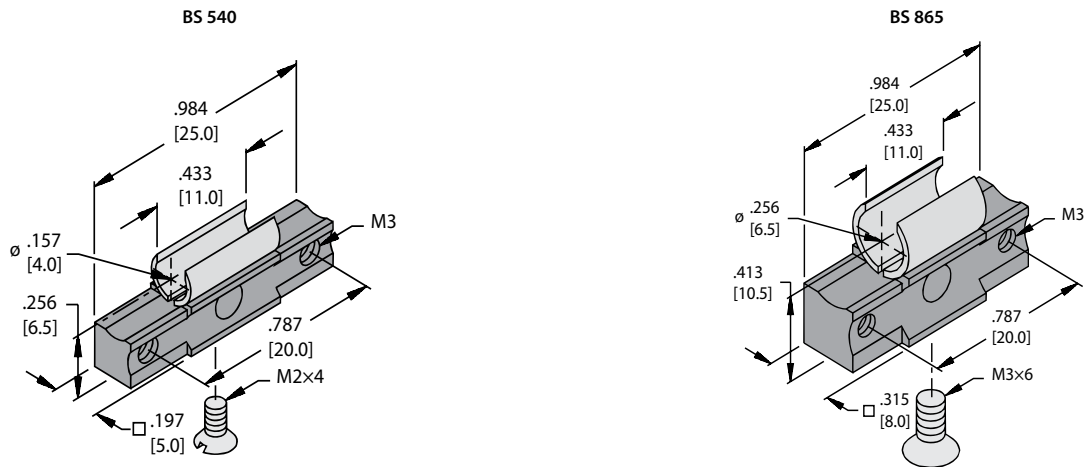
Accessories

Mounting Clamps



Part Number	ID Number	Barrel Diameter
MBS30	6948000	3.0 mm
MBS40	69477	4.0 mm
MBS65	69478	6.5 mm
MBS80	69479	8.0 mm

Inches [mm]
Material: Aluminum
Finish: Black anodized
*For use with smooth barrel Picoprox® sensors



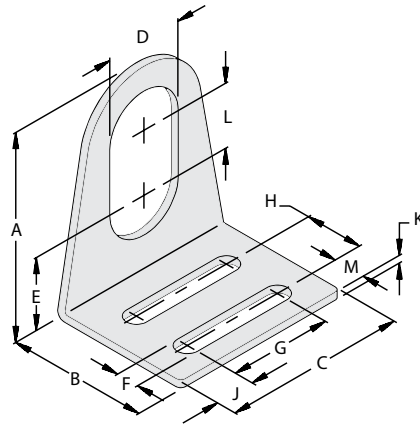
Part Number	ID Number	Barrel Diameter
BS540	69475	4.0 mm
BS865	69476	6.5 mm

Inches [mm]
Block Material: Aluminum
Sleeve Material: Steel
*For use with smooth barrel Picoprox sensors

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Accessories

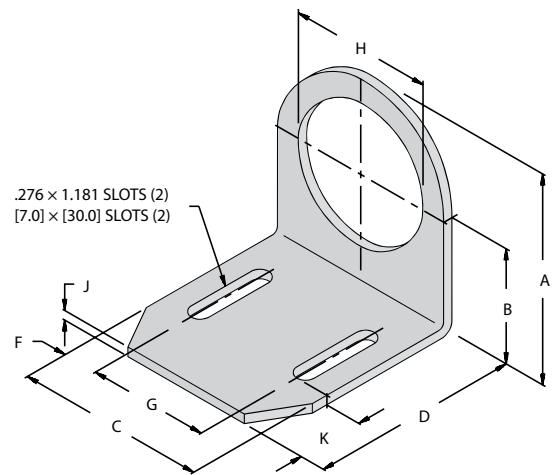
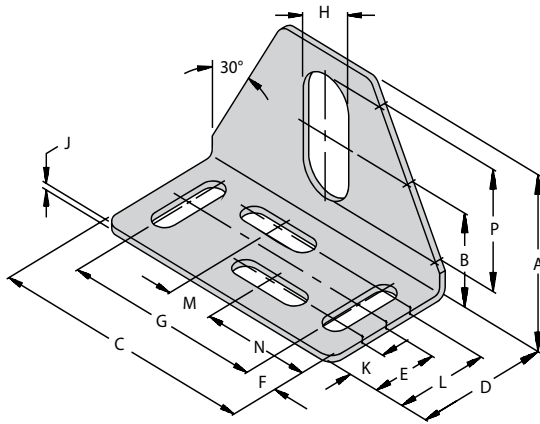
Mounting Brackets



Part Number	ID Number	Barrel Diameter	A	B	C	D	E	F	G	H	J	K	L	M
MBSS-08	A2522	8 mm	1.00 [25.4]	1.13 [28.7]	1.25 [31.8]	0.34 [8.74]	0.31 [7.92]	0.22 [5.54]	0.63 [15.9]	0.47 [11.9]	0.31 [7.92]	0.070 [1.78]	0.37 [9.53]	0.28 [7.14]
MBSS-12	A2523	12 mm	1.50 [38.1]	1.37 [34.8]	1.50 [38.1]	0.50 [12.7]	0.55 [13.9]	0.22 [5.54]	0.75 [19.1]	0.56 [14.3]	0.37 [9.53]	0.070 [1.78]	0.50 [12.7]	0.31 [7.92]
MBSS-18	A2524	18 mm	2.00 [50.8]	1.37 [34.8]	1.75 [44.5]	0.75 [19.1]	0.22 [19.1]	0.22 [5.54]	1.00 [25.4]	0.56 [14.3]	0.37 [9.53]	0.070 [1.78]	0.62 [15.9]	0.31 [7.92]
MBSS-30	A2525	30 mm	2.50 [63.5]	1.75 [44.5]	2.25 [57.2]	1.18 [30.5]	0.91 [23.0]	0.22 [5.54]	1.37 [34.8]	0.81 [20.6]	0.44 [11.2]	0.085 [2.16]	0.75 [19.1]	0.41 [10.3]
MBSS-47	A2526	47 mm	3.50 [88.9]	2.00 [50.8]	2.50 [63.5]	1.87 [47.5]	1.50 [38.1]	0.22 [5.54]	1.50 [38.1]	1.00 [25.4]	0.50 [12.7]	0.120 [3.05]	0.75 [19.1]	0.50 [12.7]

Inches [mm]

Material: 304 stainless steel



Part Number	ID Number	Barrel Diameter	A	B	C	D	E	F	G	H	J	K	L	M	N	P
MB-8	A3130-1	8 mm	1.26 [32.0]	0.66 [16.7]	2.00 [50.8]	1.00 [25.4]	0.45 [11.5]	0.30 [7.5]	1.41 [35.8]	0.33 [8.4]	0.06 [1.5]	0.24 [6.0]	0.67 [17.0]	0.35 [8.8]	0.83 [21.0]	.84 [21.4]
MB-12	A3130	12 mm	1.63 [41.5]	0.87 [22.15]	2.50 [63.5]	1.25 [31.8]	0.61 [15.5]	0.31 [7.9]	1.88 [47.8]	0.50 [12.7]	0.06 [1.5]	0.35 [9.0]	0.87 [22.0]	0.45 [11.5]	1.02 [26.0]	1.13 [28.7]
MB-18	A3135	18 mm	1.63 [41.5]	0.79 [20.0]	2.50 [63.5]	1.25 [31.8]	0.61 [15.5]	0.31 [7.9]	1.88 [47.8]	0.75 [19.1]	0.06 [1.5]	0.35 [9.0]	0.87 [22.0]	0.45 [11.5]	1.04 [26.3]	1.15 [29.1]
MB-30	A3140	30 mm	2.62 [66.5]	1.32 [33.5]	4.25 [108.0]	1.75 [44.5]	0.88 [22.4]	0.37 [9.5]	3.50 [88.9]	1.19 [30.2]	0.07 [1.8]	0.63 [16.0]	1.14 [29.0]	1.18 [30.0]	1.54 [39.0]	2.06 [52.2]
MB-47	69452	47 mm	2.74 [69.5]	1.48 [37.5]	2.52 [64.0]	252 [64.0]	—	0.47 [12.0]	1.58 [40.0]	1.87 [47.5]	0.12 [3.00]	0.63 [16.0]	—	—	—	—

Inches [mm]

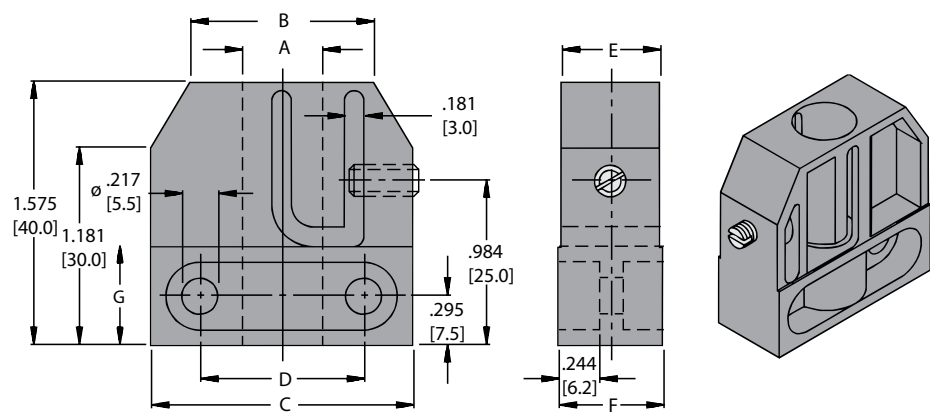
Material: Cold roll steel

Finish: Galvanized



Accessories

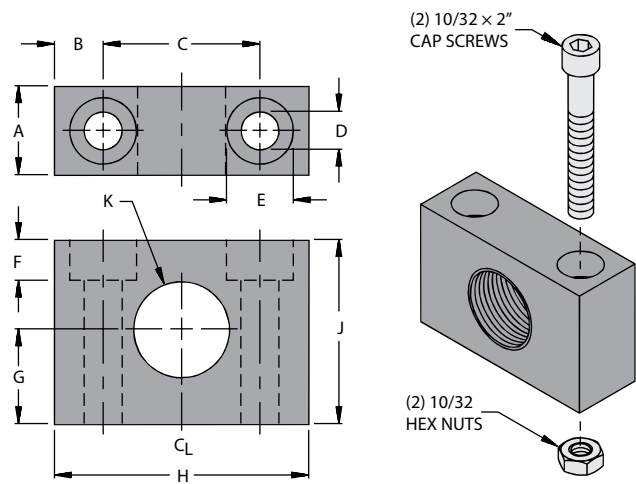
Mounting Clamps



Part Number	ID Number	Barrel Diameter	A	B	C	D	E	F	G
BS-12	M6947000	12 mm	0.48 [12.2]	1.10 [28.0]	1.57 [40.0]	0.98 [25.0]	0.59 [15.0]	0.63 [16.0]	0.59 [15.0]
BS-18	M6947100	18 mm	0.72 [18.2]	1.30 [33.0]	1.77 [45.0]	1.18 [30.0]	0.83 [21.0]	0.87 [22.0]	0.59 [15.0]

Inches [mm]
Material: PA 66-GF
*For use with 12 and 18 mm threaded barrel sensors

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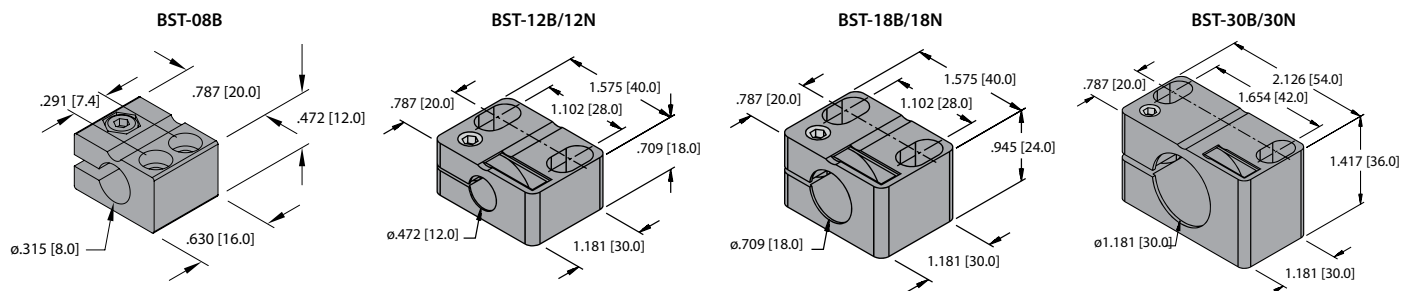
Part Number	ID Number	Barrel Diameter	A	B	C	D	E	F	G	H	J	K
MB-S12	A3150	12 mm	0.44 [11.2]	0.24 [6.2]	0.77 [19.6]	0.20 [5.0]	0.34 [8.7]	0.20 [5.0]	0.45 [11.4]	1.26 [32.0]	0.91 [23.0]	M12x1
MB-S18	A3155	18 mm	0.63 [16.0]	0.30 [7.6]	1.20 [30.5]	0.22 [5.5]	0.38 [9.6]	0.25 [6.4]	0.57 [14.5]	1.80 [45.8]	1.15 [29.3]	M18x1

Inches [mm]
Material: Delrin
*For use with 12 and 18 mm threaded barrel sensors. Mounting hardware included.



Accessories

Mounting Clamps

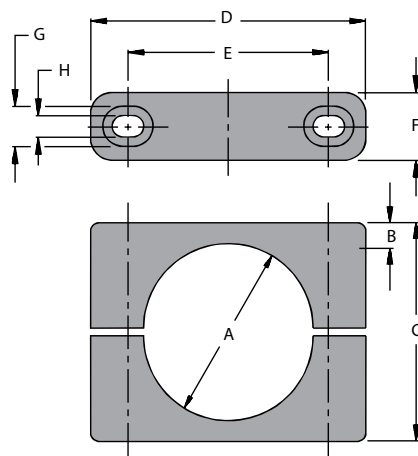


Part Number	ID Number	Barrel Diameter
BST-08B	6947210	8 mm
BST-12B	6947212	12 mm
BST-12N	6945200	12 mm
BS-18B	6947214	18 mm
BST-18N	6947215	18 mm
BST-30B	6947216	30 mm
BST-30N	6947217	30 mm

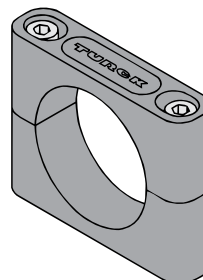
Inches [mm]

B Version comes with dead stop for flush mounted sensors

Material: PA 66-6F



SCREWS INCLUDED:
 BS-11: (2) M4 × 22 —SLOTTED HEAD
 BS-20: (2) M5 × 30 —CAP SCREWS
 BS-40: (2) M5 × 50 —CAP SCREWS



Part Number	ID Number	Barrel Diameter	A	B	C	D	E	F	G	H
BS-11	A3075	11 mm	0.43 [11.0]	0.20 [5.0]	0.79 [20.0]	1.26 [32.0]	0.79 [0.0]	0.47 [12.0]	0.32 [8.2]	0.17 [4.3]
BS-20	69464	20 mm	0.79 [20.0]	0.24 [6.0]	1.18 [30.0]	1.81 [46.0]	1.22 [31.0]	0.59 [15.0]	0.37 [9.5]	0.21 [5.3]
BS-40	69466	40 mm	1.57 [40.0]	0.24 [6.0]	1.97 [50.0]	2.56 [65.0]	1.87 [47.5]	0.63 [16.0]	0.37 [9.5]	0.21 [5.3]

Inches [mm]

Bracket Material: PBT

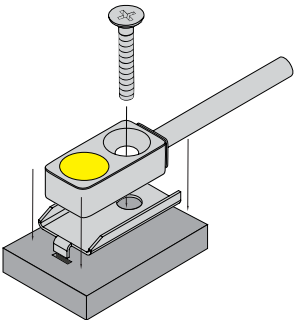
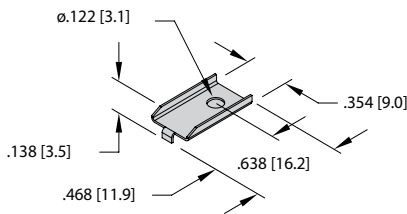
Screw Bracket: Galvanized zinc

*For use with 11, 20, and 40 mm smooth plastic barrel sensors

Accessories

Mounting Brackets

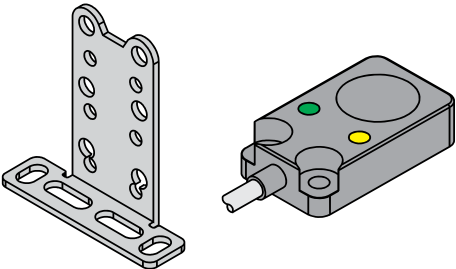
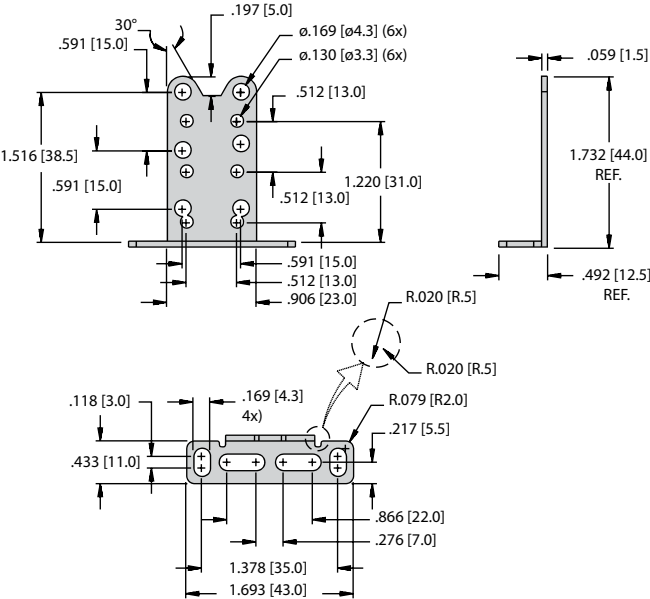
MW-Q4.7/5.5



Part Number	ID Number
MW-Q4.7/5.5	6945013

Inches [mm]
Material: Stainless steel
*For surface mounting of Q4.7 or Q5.5 sensors

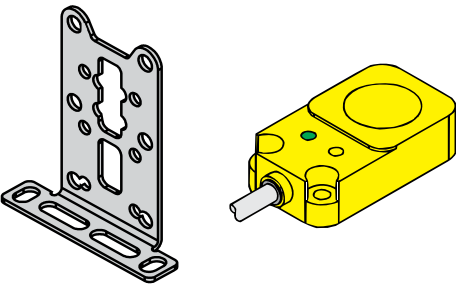
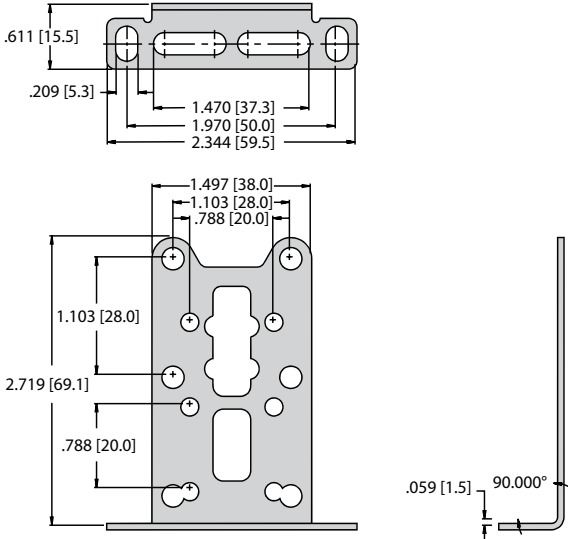
MB-Q08/Q10



Part Number	ID Number
MB-Q08/Q10	A3563

Inches [mm]
Material: Stainless steel
*For use with Q08 or Q10 sensors

MB-Q14/20



Part Number	ID Number
MB-Q14/20	A3147

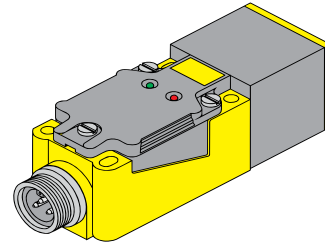
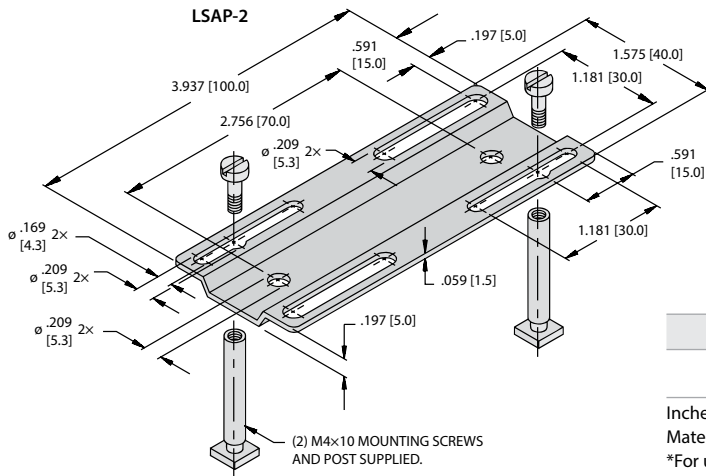
Inches [mm]
Material: Stainless steel
*For use with Q14 or Q20 sensors

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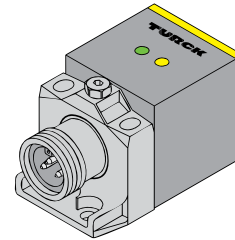
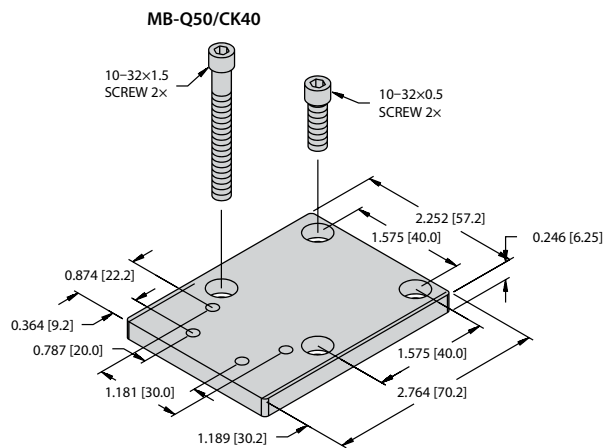
Accessories

Mounting Brackets



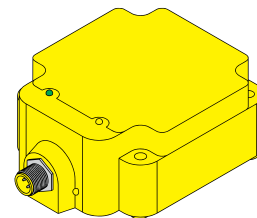
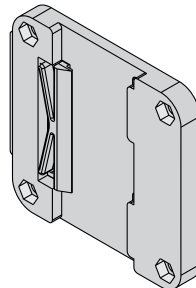
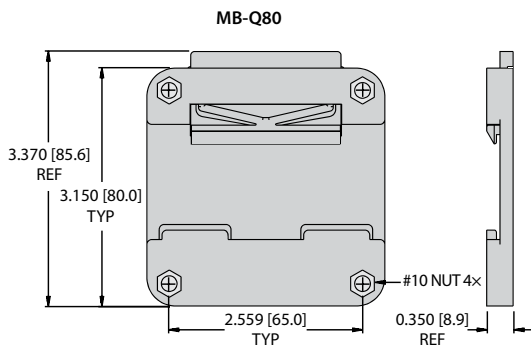
Part Number	ID Number
LSAP-2	M6942900

Inches [mm]
Material: Stainless steel
*For use with CP40



Part Number	ID Number
MB-Q50/CK40	A3148

Inches [mm]
Material: Stainless steel
*For use with Q50 or CK40 sensors

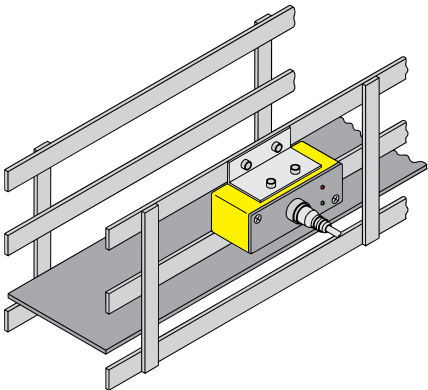
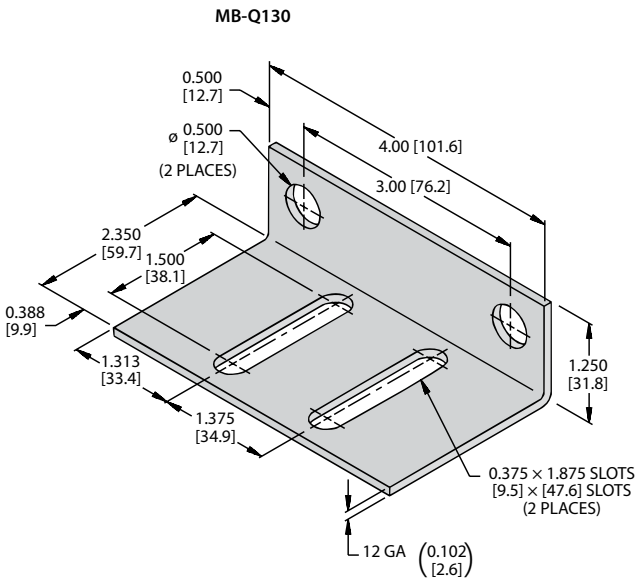


Part Number	ID Number
MB-Q80	A3144

Inches [mm]
Bracket Material: Plastic
Insert Material: Stainless steel
*For use with Q80 sensors

Accessories

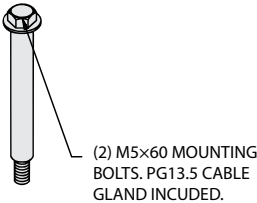
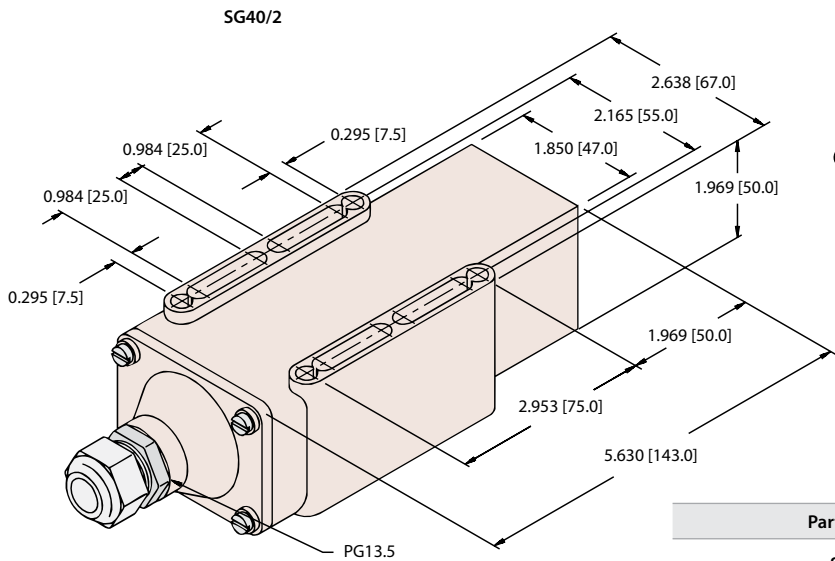
Mounting Brackets



Part Number	ID Number
MB-Q130	A3145

Inches [mm]
Material: Stainless steel
*For use with Q130 sensors

Protective Housing "Wet Suit"



Part Number	ID Number
SG40/2	69497

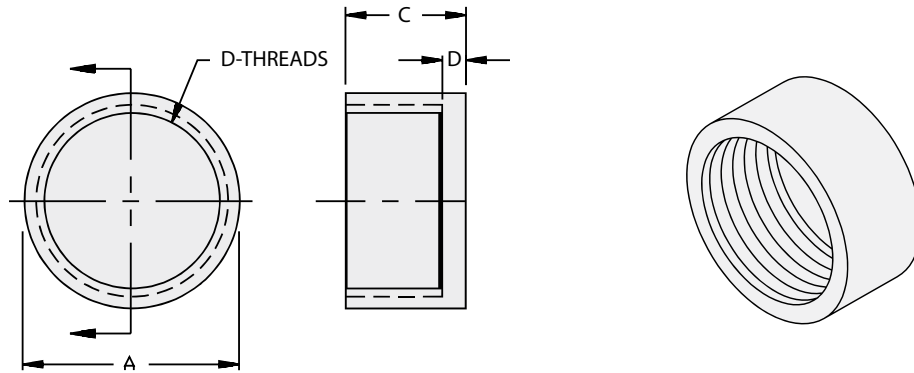
Inches [mm]
Material: Plastic, Ultem
*Recommended cable diameters: 5 - 12 mm.
For use with CP40 sensors. For extreme protection class IP68 temperatures from -30 to 170 °C (338°F), and long term submersion up to 5 meters. Especially resistant to UV-radiation and ozone.

We reserve the right to make technical alterations without prior notice.



Accessories

PTFE / Ceramic Caps



Part Number	ID Number	Barrel Diameter	Material	A	B	C	D
CAP 08-PTFE	A3055-1	8 mm Embeddable	PTFE	0.375 [9.5]	0.03 [0.7]	0.437 [11.1]	M8x1
CAP 08-DER	A9326	8 mm Embeddable	Delrin	0.375 [9.53]	0.03 [0.76]	0.437 [11.1]	M8x1
CAP 12-PTFE	M6966200	12 mm Embeddable	PTFE	0.63 [16.0]	0.03 [0.7]	0.63 [16.0]	M12x1
CAP 12-CER	A2530	12 mm Embeddable	Ceramic	0.58 [14.7]	0.035 [.89]	0.35 [8.90]]	M12x1
CAP 12-DER	A9321	12 mm Embeddable	Delrin	0.58 [14.7]	0.035 [.89]	0.35 [8.90]	M12x1
CAP 12N-CER	A9129	12 mm Non-embeddable	Ceramic	0.58 [14.7]	0.035 [.89]	0.60 [15.2]	M12x1
CAP 12N-DER	A9322	12 mm Non-embeddable	Delrin	0.58 [14.7]	0.035 [.89]	0.60 [15.2]	M12x1
CAP 18-PTFE	A3055	18 mm Embeddable	PTFE	0.87 [22.0]	0.04 [1.0]	0.35 [9.0]	M18x1
CAP 18N-PTFE	A3056	18 mm Non-embeddable	PTFE	0.87 [22.0]	0.04 [1.0]	0.79 [20.0]	M18x1
CAP 18-CER	A2531	18 mm Embeddable	Ceramic	0.95 [24.1]	0.045 [1.14]	0.35 [8.90]	M18x1
CAP 18-DER	A9323	18 mm Embeddable	Delrin	0.95 [24.1]	0.045 [1.14]	0.35 [8.90]	M18x1
CAP 18N-CER	A3056-4	18 mm Non-embeddable	Ceramic	0.95 [24.1]	0.045 [1.14]	0.70 17.8	M18x1
CAP 18N-DER	A9324	18 mm Non-embeddable	Delrin	0.95 [24.1]	0.045 [1.14]	0.70 17.8	M18x1
CAP 30-PTFE	A3057	30 mm Embeddable	PTFE	1.34 [34.0]	0.05 [1.2]	0.35 [9.0]	M30x1.5
CAP 30N-PTFE	A3058	30 mm Non-embeddable	PTFE	1.34 [34.0]	0.05 [1.2]	1.14 [29.0]	M30x1.5
CAP 30-CER	A2532	30 mm Embeddable	Ceramic	1.50 [38.1]	0.08 [2.03]	0.39 [9.90]	M30x1.5
CAP 30-DER	A9325	30 mm Embeddable	Delrin	1.50 [38.1]	0.08 [2.03]	0.39 [9.90]	M30x1.5
CAP 30N-DER	A9320	30 mm Non-embeddable	Delrin	1.50 [38.1]	0.08 [2.03]	1.00 [25.4]	M30x1.5
CAP 47-PTFE	A3060	47 mm Embeddable	PTFE	2.20 [55.8]	0.06 [1.6]	0.38 [9.7]	PG 36

Inches [mm]

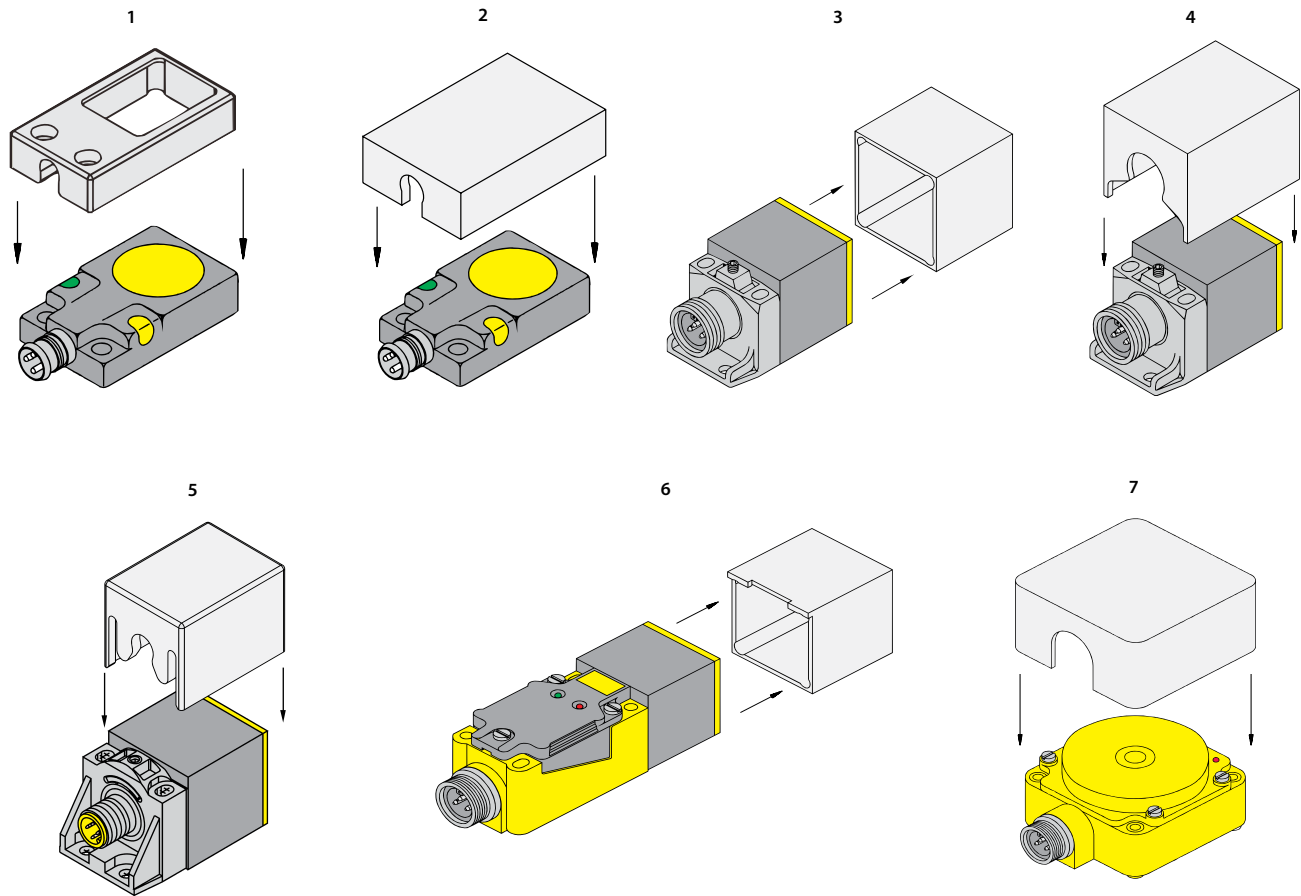
We reserve the right to make technical alterations without prior notice.

Accessories



Accessories

Protective Covers



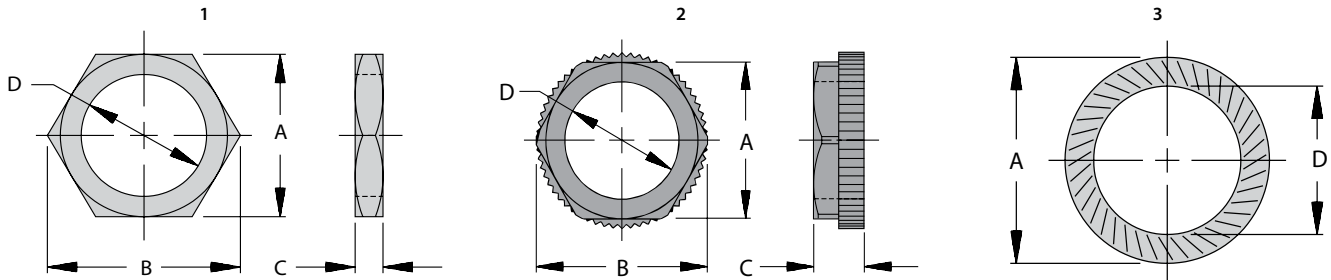
Part Number	ID Number	Material	For Use With Sensor Housing	Drawing Image
MBS-Q08TS	A9492	Nickel Plated Steel	Q08	1
T-Q08-T-MCC	A5155	PTFE	Q08	2
T-Q14-T-MCC	A5154	PTFE	Q14	2
T-Q20-T-MCC	A5156	PTFE	Q20	2
T-CK40-T-FC	A5202	PTFE	CK40	3
T-CK40-D-FC	A5160	Delrin	CK40	3
T-CK40-T-MCC	A5201	PTFE	CK40	4
T-CK40-T-MCB	A9126	PTFE	CK40	5
T-CP40-T-C	A5204	PTFE	CP40	6
T-CP80-T	A5207	PTFE	CP80	7

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Accessories

Locknuts and Washers



Part Number	ID Number	Barrel Diameter	Materials	A	B	C	D	Dimension Drawing
Locknut-M05	A3119	5 mm	SS	0.28 [7.0]	0.32 [8.0]	0.10 [2.5]	M5x0.5	1
Locknut-SS08	A3123-08	8 mm	SS	0.51 [13.0]	0.58 [14.7]	0.16 [4.0]	M8x1	1
Locknut-M8X1PTFE	A9696	8 mm	PTFE	0.51 [13.0]	0.58 [14.7]	0.16 [4.0]	M8x1	1
Locknut-M12	A3122	12 mm	CPB	0.67 [17.0]	0.76 [19.4]	0.16 [4.0]	M12x1	1
Locknut-MT12	A3109	12 mm	PTFE	0.67 [17.0]	0.76 [19.4]	0.16 [4.0]	M12x1	1
Locknut-SS12	A3123	12 mm	SS	0.67 [17.0]	0.76 [19.4]	0.16 [4.0]	M12x1	1
Locknut-P12	A3446	12 mm	PA	0.67 [17.0]	0.75 [19.0]	0.32 [8.0]	M12x1	2
Locknut-M18	A3125	18 mm	CPB	0.94 [24.0]	1.08 [27.4]	0.16 [4.0]	M18x1	1
Locknut-MT18	A3108	18 mm	PTFE	0.94 [24.0]	1.08 [27.4]	0.16 [4.0]	M18x1	1
Locknut-SS18	A3123-0	18 mm	SS	0.94 [24.0]	1.08 [27.4]	0.16 [4.0]	M18x1	1
Locknut-P18	A3448	18 mm	PA	0.94 [24.0]	1.06 [27.0]	0.32 [8.0]	M18x1	2
Locknut-M30	A3126	30 mm	CPB	1.42 [36.0]	1.63 [41.4]	0.20 [5.0]	M30x1.5	1
Locknut-MT30	A3107	30 mm	PTFE	1.42 [36.0]	1.63 [41.4]	0.20 [5.0]	M30x1.5	1
Locknut-SS30	A3123-1	30 mm	SS	1.42 [36.0]	1.63 [41.4]	0.20 [5.0]	M30x1.5	1
Locknut-P30	A3450	30 mm	PA	1.42 [36.0]	1.58 [40.1]	0.39 [10.0]	M30x1.5	2
Locknut-PG36	A3440	47 mm	CPB	2.01 [51.1]	2.20 [56.0]	0.20 [5.0]	PG36	1
LW-05	A100066	5 mm	SS	0.39 [10]	N/A	N/A	0.21 [5.3]	3
LW-08	A3124	8 mm	SS	0.55 [14]	N/A	N/A	0.32 [8.2]	3
LW-12	A3127	12 mm	SS	0.70 [17.8]	N/A	N/A	0.52 [13.2]	3
LW-18	A3128	18 mm	SS	1.06 [26.8]	N/A	N/A	0.76 [19.3]	3
LW-30	A3129	30 mm	SS	1.76 [44.8]	N/A	N/A	1.26 [32.0]	3

Inches [mm]

*For use with threaded barrel sensors

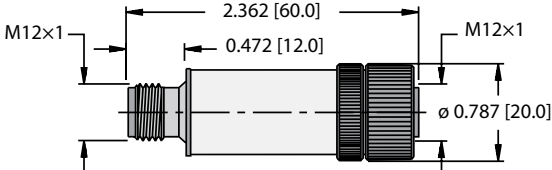
We reserve the right to make technical alterations without prior notice.

Accessories

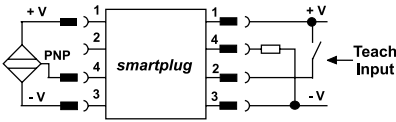
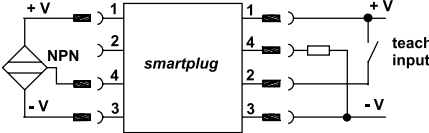


Accessories

Smart Plugs

Housing Style	Dimension Drawing
	A 

Add function to existing installations. Solve control problems quickly in the field. Simple plug-in installation - uses industry standard M12×1 4-pin connectors (Eurofast). Programmed through "teach" input - Pin 2. LED aids programming.

Wiring Diagrams	
1 	2 

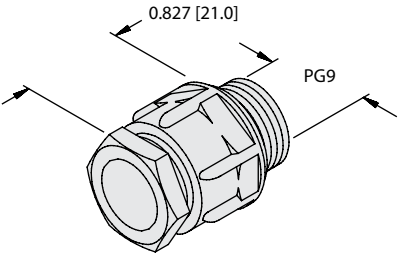
Technical Data	
Operating Voltage: 10 - 30 VDC	Ambient Temperature Range: 0 to 60 °C (32 to 140 °F)
Own Current Consumption: < 10 mA	Display: Red LED
Input Resistance: > 10 kΩ	Housing Material: Plastic PBTP/PA
Max. Input Frequency: 10 kHz	Protection Standard: IP 67
Min. Response Time: 0.1 ms	Connection Input: 4-pin socket M12×1
Max. Output Current: 400 mA, Short-circuit proof	Connection Output: 4-pin connector M12×1

Part Number	ID Number	Teachable Function	Dimension Drawing	Wiring Diagram
SPC1-AP6X	A0620	Programmable pulse or interval counter. Adjustable N.O./N.C. Inverter	A	1
SPC1-AN6X	A0600	Programmable pulse or interval counter. Adjustable N.O./N.C. Inverter	A	2
SPF1-AP6X	A0622	Programmable over or under speed monitor.	A	1
SPF1-AN6X	A0602	Programmable over or under speed monitor.	A	2
SPN1-AP6-ARN6X	A0624	Converts a PNP input signal to an NPN output. Adjustable N.O./N.C. Inverter.	A	1
SPN1-AN6-ARP6X	A0604	Converts a NPN input signal to a PNP output. Adjustable N.O./N.C. Inverter.	A	2
SPT1-AP6X	A0626	Programmable timer for on-delay or off-delay between 1 and 65000 ms.	A	1
SPT1-AN6X	A0606	Programmable timer for on-delay or off-delay between 1 and 65000 ms.	A	2

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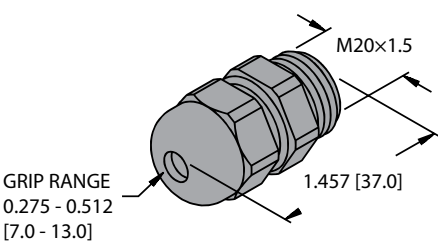
Accessories

Cable Glands



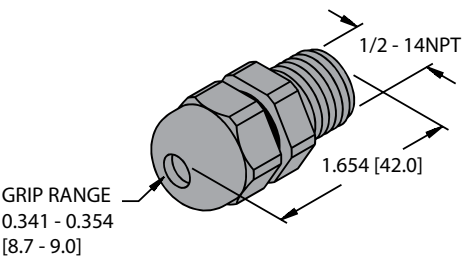
Part Number	ID Number
Cable Gland PG 9	A3054

Inches [mm]
Material: Polyamide plastic
Recommended Cable Style: 18 and 20 AWG
*For use with integral terminal chamber style sensors



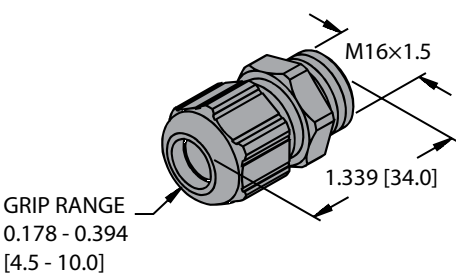
Part Number	ID Number
Cable Gland M20	A0936

Inches [mm]
Material: Polyamide plastic
*For use with integral terminal chamber style sensors



Part Number	ID Number
Cable Gland 1/2 - 14NPT	A3480

Inches [mm]
Material: Polyamide plastic
Recommended Cable Style: 18 and 20 AWG
*For use with integral terminal chamber style sensors



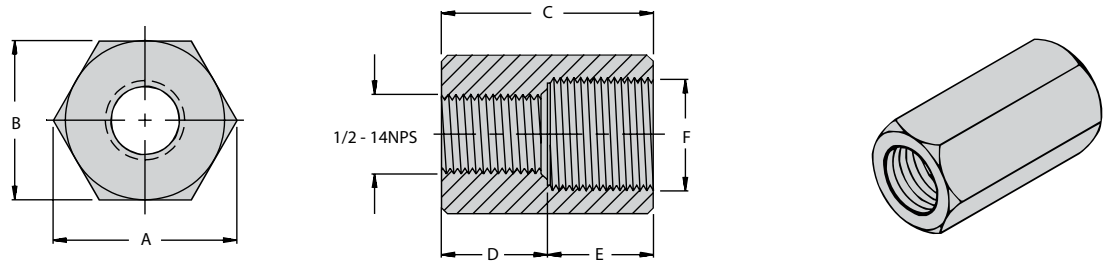
Part Number	ID Number
Cable Gland M16X1.5	A9348

Inches [mm]
Material: Polyamide plastic
Recommended Cable Style: 18-24 AWG
*For use with integral terminal chamber style sensors

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Accessories

Conduit Adapters

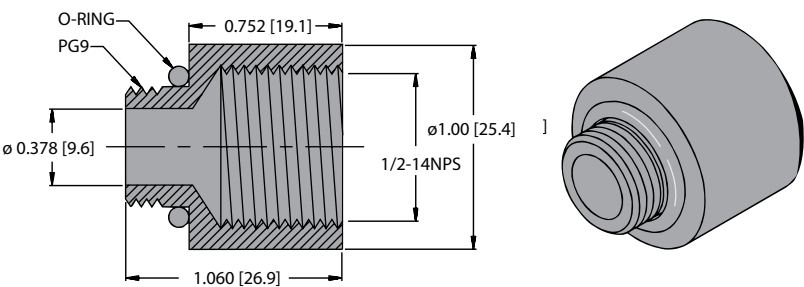


Part Number	ID Number	Barrel Diameter	A	B	C	D	E	F
TMF 12-G	A3310	12 mm	1.15 [29.2]	1.00 [25.4]	1.97 [50.0]	0.50 [12.7]	0.56 [14.2]	M12x1
TMF 18-G	A3320	18 mm	1.15 [29.2]	1.00 [25.4]	1.00 [25.4]	0.50 [12.7]	0.50 [12.7]	M18x1
TMF 30-G	A3345	30 mm	1.73 [44.0]	1.50 [38.1]	1.00 [25.4]	0.60 [15.2]	0.40 [10.2]	M30x1.5
TMF 47-G	A3360	47 mm	2.30 [58.4]	2.00 [50.8]	1.75 [44.5]	1.05 [26.7]	0.70 [17.8]	PG36

*For use with G and P threaded barrel sensors

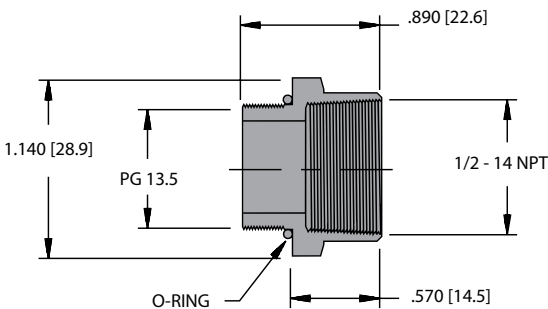
TMF 18-MS	A3330	18 mm	1.15 [29.2]	1.00 [25.4]	2.00 [50.8]	1.50 [38.1]	0.50 [12.7]	M18x1
TMF 30-MS	A3355	30 mm	1.73 [44.0]	1.50 [38.1]	2.00 [50.8]	0.60 [15.2]	1.40 [35.6]	M30x1.5

Inches [mm]
*For use with M and S threaded barrel sensors
Material: Aluminum



Part Number	ID Number
TMF 09-14	A3290

Inches [mm]
Material: Derlin
*For use with terminal chamber style sensors



Part Number	ID Number
TMF 13.5-14	A4500
TMF 13.5-14/SS	A9639

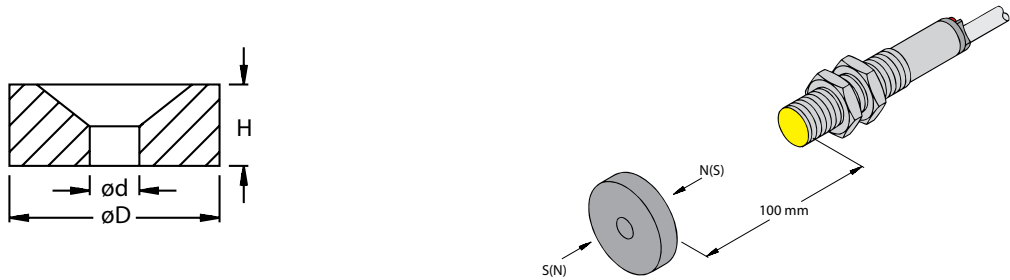
Inches [mm]
Material: Nickel plated brass
SS =Stainless steel
*For use with integral terminal chamber style sensors

We reserve the right to make technical alterations without prior notice.



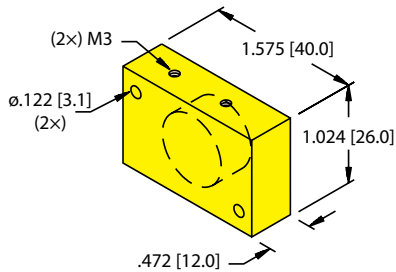
Accessories

Actuation Magnets



Part Number	ID Number	Diameter-D	Height-H	Drilling for mounting-d	Sensing Range To BIM-M12	Sensing Range To BIM-EG08
DMR15-6-3	6900216	15	6	3	36	32
DMR20-10-4	6900214	20	10	4	59	50
DMR31-15-5	6900215	31	15	5	90	78

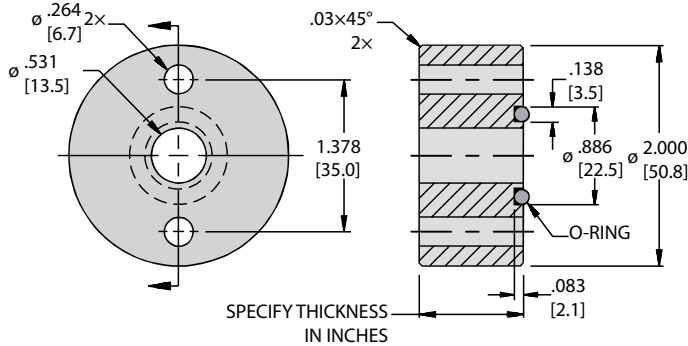
Inches [mm]
Material: Barium ferrite (Oxyd 300)



Part Number	ID Number
DM-Q12	6900367

Inches [mm]
Material: Plastic

Spacer Plates



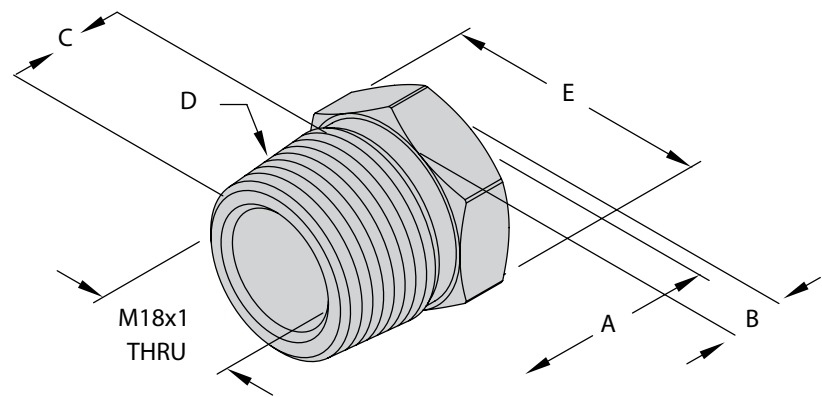
Part Number
SP-__ ¹⁾ -C

Inches [mm]
Material: Aluminum
*¹⁾ Add desired thickness in inches.
Minimum thickness: 0.125", in .005 increments.
For use with cylinder position sensors, CRS Series.

We reserve the right to make technical alterations without prior notice.

Accessories

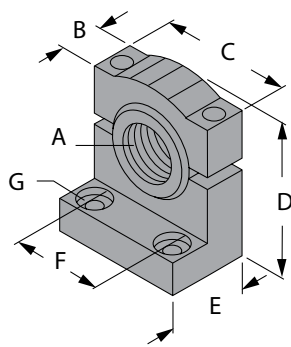
Tank Adapter



Part Number	ID Number	Barrel Diameter	A	B	C	D	E
FSU-SS-M18-N3/4	A9983	18 mm	1.0625 [27.05]	0.32 [8.00]	0.750 [19.05]	3/4 - 14 NPT	1-1/16" HEX

Inches [mm]
Material: Stainless steel

Gimble Bracket For Ultrasonic Sensors



Part Number	ID Number	A	B	C	D	E	F	G
TMB18SF	7700396	M18x1	0.46 [11.71]	2.31 [50.8]	1.70 [43.2]	1.00 [25.4]	1.42 [36.1]	ø5
TMB30SC	7700400	M30x1.5	0.50 [12.7]	2.62 [66.5]	2.31 [58.7]	1.14 [29.0]	2.00 [50.8]	ø7

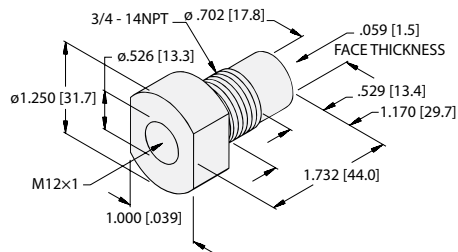
Inches [mm]
Material: Polyester

We reserve the right to make technical alterations without prior notice.

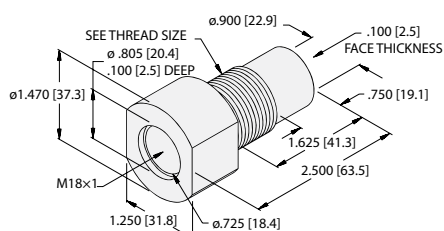
Accessories

Threaded Tank Wells

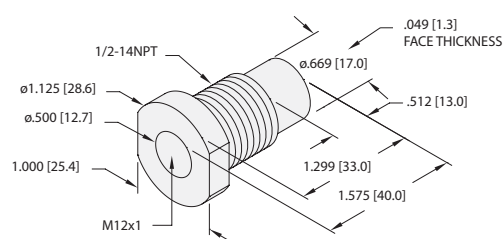
TWD-12S



TWT-18
TWD-18



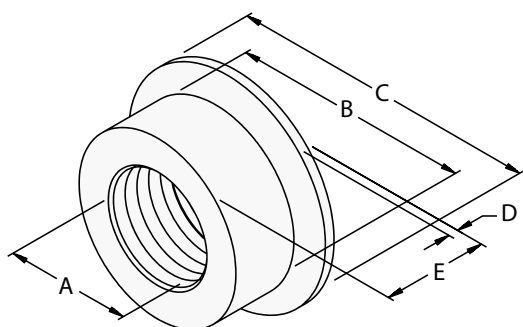
TWN-12S-1/2NPT



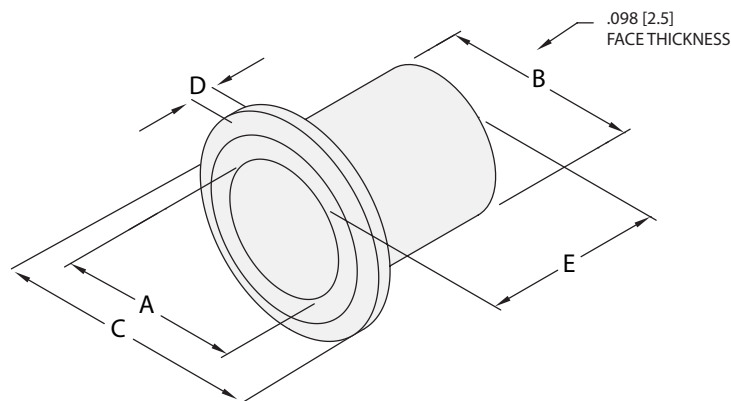
Part Number	ID Number	Material	Thread Size	Drill Size	C
TWD-12S	A5051	Delrin	3/4 - 14 NPT	59/64	12 mm threaded capacitive sensors for liquid level sensing
TWN-12S-1/2 NPT	A900028	Nylon	1/2 - 14NPT	23/32	12 mm threaded capacitive sensors for liquid level sensing
TWD-18S	A5055	Delrin	3/4 - 14 NPT	59/64	18 mm threaded capacitive sensors for liquid level sensing
TWT-18S	A5050	PTFE	3/4 - 14 NPT	59/64	18 mm threaded capacitive sensors for liquid level sensing
TWD-18S-1	A5057	Delrin	1 - 11 1/2NPT	1 - 5/32	18 mm threaded capacitive sensors for liquid level sensing
TWT-18S-1	A5056	PTFE	1 - 11 1/2NPT	1 - 5/32	18 mm threaded capacitive sensors for liquid level sensing

Inches [mm]

TWTS-30



TWT-30TRI



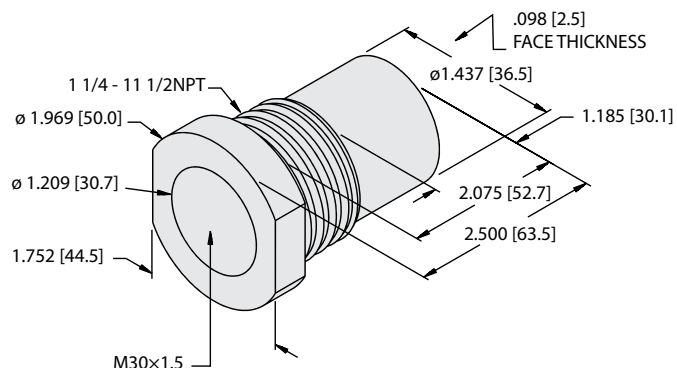
Part Number	ID Number	A	B	C	D	E
TWTS-1.5-30	A5077	M30x1.5	1.500 [38.1]	1.984 [50.4]	0.11 [2.80]	1.000 [25.4]
TWTS-2-30	A5076	M30x2.0	2.008 [51.0]	2.520 [64.0]	0.11 [2.80]	1.000 [25.4]
TWT-30TRI	A5061	M30x1.5	1.339 [34.0]	1.984 [50.4]	0.187 [4.7]	1.722 [43.7]

Inches [mm]

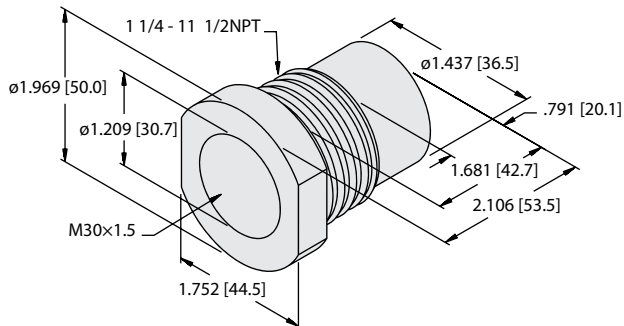
Accessories

Threaded Tank Wells

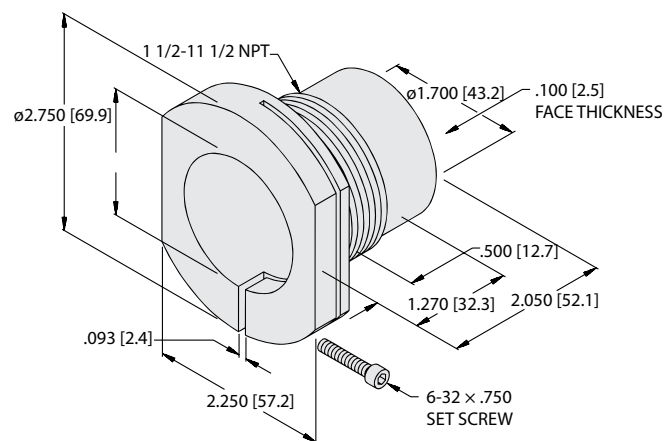
TWD-30S
TWT-30S



TWD-30S-SHORT
TWT-30S-SHORT



TWD-40S
TWT-40S



Part Number	ID Number	Barrel Diameter	Thread Size	Drill Size	Application
TWD-30S	A5065	Delrin	1 1/4 - 11 1/2 NPT	1 - 1/2	30 mm threaded capacitive sensors for liquid level sensing
TWT-30S	A5060	PTFE	1 1/4 - 11 1/2 NPT	1 - 1/2	30 mm threaded capacitive sensors for liquid level sensing
TWD-30S-SHORT	A5063	Delrin	1 1/4 - 11 1/2 NPT	1 - 1/2	30 mm threaded capacitive sensors for liquid level sensing
TWT-30S-SHORT	A5062	PTFE	1 1/4 - 11 1/2 NPT	1 - 1/2	30 mm threaded capacitive sensors for liquid level sensing
TWD-40S	A5075	Delrin	1 1/4 - 11 1/2 NPT	1 - 47/64	40 mm smooth capacitive sensors for liquid level sensing
TWT-40S	A5070	PTFE	1 1/4 - 11 1/2 NPT	1 - 47/64	40 mm smooth capacitive sensors for liquid level sensing

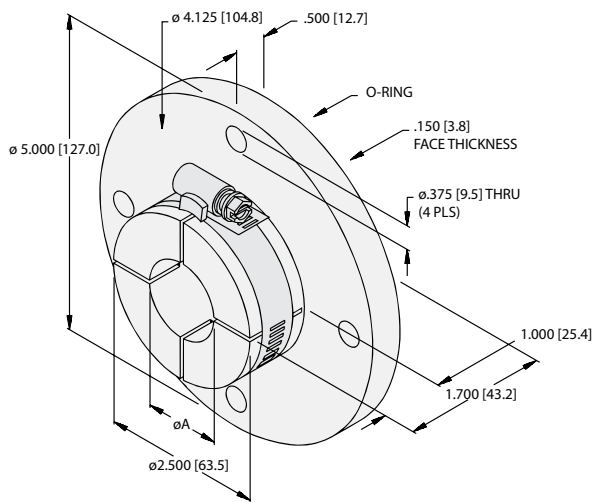
Inches [mm]

We reserve the right to make technical alterations without prior notice.



Accessories

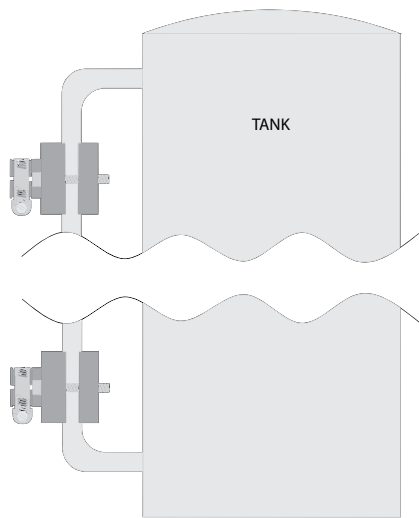
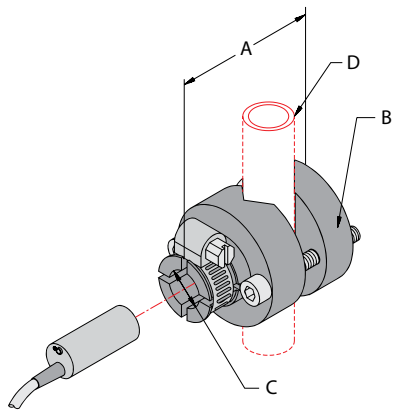
Bolt-on Tank Wells



Part Number	ID Number	A
TWU-30B	A5005	1.181 [30.0]
TWU-40B	A5000	1.575 [40.0]

Inches [mm]
 Material: UHMW/PE
 Pressure Rating: 80 PSI
 *For use with 30 and 40 mm barrel sensors

Bolt-on Site Bracket



Part Number	ID Number	A	B	C	D
				(Non/or Threaded)	Across Flats
TSG-12	A2500	1.75 [44.5]	1.25 [31.8]	12 mm	0.37-0.81 [9.40-20.6]
TSG-18	A2501	1.90 [48.3]	1.48 [37.5]	18 mm	0.63-1.12 [16.0-28.4]
TSG-30	A2502	3.45 [87.6]	2.00 [50.8]	30 mm	1.00-1.75 [25.4-44.5]

Inches [mm]

We reserve the right to make technical alterations without prior notice.

Accessories

Test Box

TB3-CP80



TB4 V.2



TX1-Q20L60



USB-2-IOL-0002



Part Number	ID Number	Description
TB3-CP80	6967112	DC powered test box allows you to quickly test 2, 3, 4 wire DC sensors or Namur output sensors, includes batteries.
TB4 V.2	6967113	Analog test box for sensors with analog or switching outputs, includes batteries.
TX1-Q20L60	6967114	Teach adapter for inductive encoders, linear position, angle, ultrasonic and capacitive sensors.
USB-2-IOL-0002	6825482	IO Link master with integrated USB interface for parameterization of IO Link compliant linear position sensors via PC.

Limit Value Monitor

Functional Description:

The limit value monitors IM43-13-SR and IM43-14-SRi are single-channel devices and alternately monitor measuring current of 0/4-20 mA or measuring voltages of 0/2-10 V. The three limit values are set via the front panel teach button. In addition, a voltage of approx. 18 V (at 35 mA max.) is provided, which can be used to power transmitters or sensors. The output mode is jumper programmable at terminals 5-8.

PIN	Terminal Function
1	(+) 18 VDC Sensor Supply
2	(+) Current Input
3	(+) Voltage Input
4	(-) 0 V Sensor Common
5	(-) Common for 0/4 mA Minimum Selection
9	Input for 0/4 mA Minimum Selection
12	Relay Output 1
13	Relay Output 1
14	Relay Output 2
15	Relay Output 2
11	SRi - 0/4-20 mA Output
16	SRi - 0/4-20 mA Output
17	Relay Output 3
18	Relay Output 2
19	20-250 VUC Supply Power
20	20-250 VUC Supply Power



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