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## The Precise Link

# **Precision Junction Boxes**



#### **Accuracy and Stability**

All components are designed for high accuracy and long term stability.

Precision SMT resistors and gold plated switches guarantee trouble free operation.



#### **CalFree™**

Precision Junction boxes can be set to be absolutely neutral. Thus initial shift error is low and all boxes are capable for CalFree™ test weight free calibration.



#### **Easy Shift Adjustment**

All components for shift adjustment are on board, no soldering or additional resistors are needed. Rotary switches can be operated like trim pots without their trade-offs in terms of stability and temperature impact.



#### Stainless Steel Housing

All junction boxes are made from stainless steel and provide best reliability even in harsh industrial environments.

Version in IP65 and IP69K are available.

# Precision Junction Boxes When Accuracy Matters

Junction boxes are often underestimated in terms of their accuracy impact. Precision junction boxes combine the best of two worlds. Discrete resistors provide high accuracy and long term stability while rotary switches combine them to a simple user interface similar to trim pots.

- Accurate and stable discrete resistors
- · Rotary switches for easy user interface
- No soldering, no loose resistors
- Neutral initial setup for CalFree™ calibration
- 304 or 316 stainless steel enclosure
- IP65 or IP69K protection class
- Hygenic Version NSF and GMP approved
- Easy connection to screw type terminal blocks
- ATEX/IECEx Version Zone 1/21 & 2/22



### **Precision Junction Boxes Specifications**

Туре		unit of measure	Specification							Description ( P. D. 1999)	
			Precision Junction Box				A IDE 401	Precision Junction Boxes ATEX  AJB941M AJB641SX AJB841SX			
Model No. Size			AJB540S	AJB641S small	AJB841S	AJB541M	AJB540L	AJB941M	AJB641SX		
					high	medium	large	medium		mall hazardous,	
Application			stan	dard	corrosion	large size	Conduit	hygienic	hazardous	high corrosion	
Hygienic approvals	3						GMP certified				
tem No. No. of load cells			30206112	30206108	30070226	30206111	30206113	30219978	30070224	30070225	
Load cell resistance	e range	Ω		120 - 1200		120 - 4		120 - 1200	120	- 1200	
	Method		Encoding rotary switches with p				with precision di	screte resistors			
Shift Adjustment	Inital Error 1)					< 1/6000					
	Range (nominal)	%	1.3			1.3 (3.5 extended @			1.3		
	Number of Steps					1000Ω) 256					
	Smallest Adjustment Step										
	Shift Adjustment Methods		On-load — Adjustment without calculation similar to trim pot adjus						ment		
	Available			Inital – Compensation of multiple junction box connection							
_egal For Trade Sec	Pair/Section shift adjustment										
	Operating		sealing wire or sticker  -30 ~ +65 (-4 ~ +150)  -30 ~ +60 (-4 ~						) (-4 ~ +140)		
emperature Range	Safe Storage			-30 ~ +65 (-4 ~ +150) -40 ~ +80 (-40 ~ +176)							
voitation Valtage	Recommended	V 40/D0	10								
Excitation Voltage	Max.	V AC/DC				20				17.4	
Insulation Resistance @50VDC		ΜΩ	> 5000								
Breakdown Voltage	)	V AC	via mounting			via mounting	> 500 dedicated stud	via mounting			
Earthing/ Grounding			screws	dedicated	l stud	screws	acurcated Stud	screws	optional -	not required	
	Number, Cat. 2									3ATEX1396X	
	Ratings, Cat. 2									ia IIC T4 Gb	
ATEX Approval <sup>4)</sup>		-								70°C T90°C Db 300mA, Pi = 1.2V	
	Entity Dayameters Oct 0									=Li= 0	
	Entity Parameters, Cat. 2								200mA, Pi = 1.2W		
	Number, Cat. 3	-							Ci=Li=0" DEKRA 03ATEX1397X		
	Trainibol, Call C	-								ic IIC T4 Gc	
	Ratings, Cat. 3									nA IIC T4 Gc	
		-								70°C T90°C Dc DV, Ii = 1A	
	Entity Parameters, Cat. 3								Ui = 10.5V, Ii = 500mA, Ci=0, Li=0		
	Number								IECEX DEK 17.0047X		
ECEx Approval 4)									Ex ia IIC T4 Gb, Ex ic IIC T4 Gc, Ex nA IIC T4 Gc		
LOLX Apploval	Ratings									°C T90°C Db,	
									Ex to IIIC T70		
			<del> </del>						27(10 1110 170	°C T90°C Dc	
	Englocure		otainlo	no otool	stainless	otainloo	etool	stainless steel,			
Material	Enclosure		stainle	ss steel	stainless steel 316	stainless	steel	stainless steel, FDA certified	stainless steel		
Material			stainle:		steel 316	stainless	carbon steel,	FDA certified	stainless steel	stainless steel 31	
Material	Enclosure  Cable entry fitting		stainle:	ss steel Polyamide	steel 316	stainless			stainless steel		
	Cable entry fitting  Type			Polyamide	steel 316 (Nylon) rubber gasket		carbon steel, zinc plated	FDA certified stainless steel silicon	stainless steel Polyam	stainless steel 31 ide (Nylon) er gasket	
	Cable entry fitting  Type  IP Rating		stainle	Polyamide	steel 316 (Nylon) rubber gasket	IP6	carbon steel, zinc plated	FDA certified stainless steel	stainless steel Polyam	stainless steel 31	
Protection	Cable entry fitting  Type	kg (lb)		Polyamide	steel 316 (Nylon) rubber gasket	IP6	carbon steel, zinc plated	FDA certified stainless steel silicon	stainless steel  Polyam rubbe	stainless steel 31 ide (Nylon) er gasket	
Protection	Cable entry fitting  Type  IP Rating	kg (lb)	IP65	Polyamide	steel 316 (Nylon) rubber gasket	IP6: NE	carbon steel, zinc plated	stainless steel silicon IP69K	stainless steel  Polyam rubbe	stainless steel 31 ide (Nylon) er gasket 269K	
Protection Weight, nominal	Cable entry fitting  Type IP Rating NEMA Rating	kg (lb) mm2 (AWG)	IP65	Polyamide	steel 316 (Nylon) rubber gasket	IP66 NE 1.7 4 and	carbon steel, zinc plated	stainless steel silicon IP69K	stainless steel  Polyam rubbe	stainless steel 31 ide (Nylon) er gasket 269K	
Protection Weight, nominal	Cable entry fitting  Type IP Rating NEMA Rating No. Conductors		IP65	Polyamide	steel 316 (Nylon) rubber gasket	IP66 NE 1.7 4 and	carbon steel, zinc plated  5  MA 4/4X  3.8  6 + Shield  3 (12)	FDA certified stainless steel silicon IP69K 3.0	stainless steel  Polyam  rubbe	stainless steel 31 ide (Nylon) er gasket 269K	
Protection Weight, nominal	Cable entry fitting  Type IP Rating NEMA Rating  No. Conductors Conductor Size	mm2 (AWG)	IP65	Polyamide IP69	steel 316 (Nylon) rubber gasket	IP6: NE 1.7 4 and ≤ 4.8-6.5 (0.	carbon steel, zinc plated  5  MA 4/4X  3.8  6 + Shield  3 (12)	stainless steel silicon IP69K	stainless steel  Polyam  rubbe	stainless steel 31 ide (Nylon) er gasket 169K	
Protection Weight, nominal	Cable entry fitting  Type  IP Rating  NEMA Rating  No. Conductors  Conductor Size  Diameter	mm2 (AWG)	IP65	Polyamide IP69	steel 316 (Nylon) rubber gasket	IP6: NE 1.7 4 and ≤ 4.8-6.5 (0.	carbon steel, zinc plated  55  MA 4/4X  3.8 6 + Shield 3 (12) 19-0.26)	FDA certified stainless steel silicon IP69K 3.0	stainless steel  Polyam  rubbe	stainless steel 3 dide (Nylon) er gasket 1.2	
Protection Weight, nominal Load Cell Cable	Cable entry fitting  Type IP Rating NEMA Rating  No. Conductors Conductor Size Diameter No. Conductors	mm2 (AWG) mm (in)	IP65	Polyamide IP69	steel 316 (Nylon) rubber gasket	IP6: NE 1.7 4 and ≤ 4.8-6.5 (0.	carbon steel, zinc plated  5  MA 4/4X  3.8  6 + Shield  3 (12)  19-0.26)  + Shield	FDA certified stainless steel silicon IP69K 3.0 "5.0-5.4 (0.197-0.21)"	stainless steel  Polyam  rubbe	stainless steel 3 dide (Nylon) er gasket 1.2	
Material  Protection  Weight, nominal  Load Cell Cable  Home-Run and AUX Cable	Cable entry fitting  Type  IP Rating  NEMA Rating  No. Conductors  Conductor Size  Diameter  No. Conductors  Conductor Size	mm2 (AWG) mm (in) mm2 (AWG)	1.1 4-8 (0.16-0.32)	Polyamide IP69 1.2 3-6.5 (0.1)	steel 316 (Nylon) rubber gasket K	IP6: NE 1.7 4 and ≤ 4.8-6.5 (0. 6 ·	carbon steel, zinc plated  5 MA 4/4X 3.8 6 + Shield 3 (12) 19-0.26) + Shield 3 (12)	FDA certified stainless steel silicon IP69K 3.0  "5.0-5.4 (0.197-0.21)"  "5.8-6.3; 6.8-7.1;	stainless steel  Polyam rubbe IF	stainless steel 3 ide (Nylon) er gasket 669K 1.2 0.12-0.26)	
Protection  Weight, nominal  Load Cell Cable	Cable entry fitting  Type IP Rating NEMA Rating  No. Conductors Conductor Size Diameter No. Conductors	mm2 (AWG) mm (in)	IP65	Polyamide IP69	steel 316 (Nylon) rubber gasket K	IP6: NE 1.7 4 and ≤ 4.8-6.5 (0.	carbon steel, zinc plated  5 MA 4/4X 3.8 6 + Shield 3 (12) 19-0.26) + Shield 3 (12)	FDA certified stainless steel silicon IP69K 3.0 "5.0-5.4 (0.197-0.21)"	stainless steel  Polyam rubbe IF	stainless steel 31 ide (Nylon) er gasket 169K	
Protection Weight, nominal Load Cell Cable	Cable entry fitting  Type  IP Rating  NEMA Rating  No. Conductors  Conductor Size  Diameter  No. Conductors  Conductor Size	mm2 (AWG) mm (in) mm2 (AWG)	1.1 4-8 (0.16-0.32) 6-12	Polyamide IP69 1.2 3-6.5 (0.1)	steel 316 (Nylon) rubber gasket K	IP6: NE 1.7 4 and ≤ 4.8-6.5 (0. 6 ·	carbon steel, zinc plated  5 MA 4/4X 3.8 6 + Shield 3 (12) 19-0.26) + Shield 3 (12)	FDA certified stainless steel silicon IP69K 3.0 "5.0-5.4 (0.197-0.21)" "5.8-6.3; 6.8-7.1; 9.4-10.4 (0.23-0.25; 0.265-0.28;	stainless steel  Polyam rubbe IF	stainless steel 31 ide (Nylon) er gasket 1.2 0.12-0.26)	
Protection  Weight, nominal  .oad Cell Cable	Type IP Rating No. Conductors Conductor Size Diameter No. Conductors Conductor Size Diameter	mm2 (AWG) mm (in) mm2 (AWG)	1.1 4-8 (0.16-0.32) 6-12 (0.24-0.48)	Polyamide IP69 1.2 3-6.5 (0.1)	steel 316 (Nylon) rubber gasket K 2-0.26)	IP6: NE 1.7 4 and ≤ 4.8-6.5 (0. 6 ·	carbon steel, zinc plated  5 MA 4/4X 3.8 6 + Shield 3 (12) 19-0.26) + Shield 3 (12)	FDA certified stainless steel silicon IP69K 3.0 "5.0-5.4 (0.197-0.21)" "5.8-6.3; 6.8-7.1; 9.4-10.4 (0.23-0.25; 0.265-0.28; 0.37-0.41)"	stainless steel  Polyam rubbe IF  3-6.5 (t	stainless steel 31 ide (Nylon) er gasket 269K 1.2 0.12-0.26)	
Protection  Weight, nominal  Load Cell Cable	Cable entry fitting  Type IP Rating NEMA Rating  No. Conductors Conductor Size Diameter  No. Conductors Conductors Conductors Conductors Conductors Conductor Size	mm2 (AWG) mm (in) mm2 (AWG)	1.1 4-8 (0.16-0.32) 6-12	Polyamide IP69 1.2 3-6.5 (0.1)	steel 316 (Nylon) rubber gasket K 2-0.26)	IP6: NE 1.7 4 and ≤ 4.8-6.5 (0. 6 ·	carbon steel, zinc plated  5 MA 4/4X 3.8 6 + Shield 3 (12) 19-0.26) + Shield 3 (12)	## FDA certified stainless steel silicon IP69K ## 3.0 ## 5.0-5.4 ## (0.197-0.21)** ## 5.8-6.3;	stainless steel  Polyam rubbe IF  3-6.5 (t	stainless steel 31 side (Nylon) er gasket 1.2 0.12-0.26)	
Protection Weight, nominal Load Cell Cable	Type IP Rating No. Conductors Conductor Size Diameter No. Conductors Conductor Size Diameter	mm2 (AWG) mm (in) mm2 (AWG)	1.1 4-8 (0.16-0.32) 6-12 (0.24-0.48)	Polyamide IP69 1.2 3-6.5 (0.1)	steel 316 (Nylon) rubber gasket K 2-0.26)	IP6: NE 1.7 4 and ≤ 4.8-6.5 (0. 6 ·	carbon steel, zinc plated  5 MA 4/4X 3.8 6 + Shield 3 (12) 19-0.26) + Shield 3 (12)	FDA certified stainless steel silicon IP69K 3.0 "5.0-5.4 (0.197-0.21)" "5.8-6.3; 6.8-7.1; 9.4-10.4 (0.23-0.25; 0.265-0.28; 0.37-0.41)"	stainless steel  Polyam rubbe IF  3-6.5 (t	stainless steel 31 ide (Nylon) er gasket 269K 1.2 0.12-0.26)	
Protection  Weight, nominal  Load Cell Cable  Home-Run and AUX Cable	Cable entry fitting  Type IP Rating NEMA Rating  No. Conductors Conductor Size Diameter No. Conductors Conductor Size  Diameter  Possible Max. no. of load cells for 1st box  AUX cable max. recommended	mm2 (AWG) mm (in) mm2 (AWG)	1.1 4-8 (0.16-0.32) 6-12 (0.24-0.48)	Polyamide IP69 1.2 3-6.5 (0.1)	steel 316 (Nylon) rubber gasket ( 2-0.26)  yes 4	IP6: NE 1.7 4 and ≤ 4.8-6.5 (0. 6 ·	carbon steel, zinc plated  5 MA 4/4X 3.8 6 + Shield 3 (12) 19-0.26) + Shield 3 (12)	## FDA certified stainless steel silicon IP69K ## 3.0 ## 5.0-5.4 ## (0.197-0.21)** ## 5.8-6.3;	stainless steel  Polyam rubbe IF  3-6.5 (t	stainless steel 31 side (Nylon) er gasket 1.2 0.12-0.26) 0.16-0.4)	
Protection  Weight, nominal  Load Cell Cable	Cable entry fitting  Type IP Rating NEMA Rating  No. Conductors Conductor Size Diameter  No. Conductors Conductor Size  Diameter  No. Conductors Conductor Size  Diameter  AUX cable max. recommended wire resistance 20	mm2 (AWG) mm (in) mm2 (AWG) mm (in)	1.1 4-8 (0.16-0.32) 6-12 (0.24-0.48)	Polyamide  IP69  1.2  3-6.5 (0.12  4-8 (0.16	steel 316 (Nylon) rubber gasket K 2-0.26) yes 4	IP66 NE 1.7 4 and ≤ 4.8-6.5 (0. 6.4-9.5 (0	carbon steel, zinc plated  5 MA 4/4X 3.8 6 + Shield 3 (12) 19-0.26) + Shield 3 (12)	FDA certified stainless steel silicon IP69K 3.0  "5.0-5.4 (0.197-0.21)"  "5.8-6.3; 6.8-7.1; 9.4-10.4 (0.23-0.25; 0.265-0.28; 0.37-0.41)" yes 4  0.5	stainless steel  Polyam rubbe IF  3-6.5 (4	stainless steel 31 side (Nylon) er gasket e69K 1.2 0.12-0.26) 0.16-0.4) yes 4	
Protection  Weight, nominal  Load Cell Cable  Home-Run and AUX Cable	Cable entry fitting  Type IP Rating NEMA Rating  No. Conductors Conductor Size Diameter No. Conductors Conductor Size  Diameter  Possible Max. no. of load cells for 1st box  AUX cable max. recommended	mm2 (AWG) mm (in) mm2 (AWG) mm (in)	1.1 4-8 (0.16-0.32) 6-12 (0.24-0.48)	Polyamide  IP69  1.2  3-6.5 (0.1:  4-8 (0.16	steel 316 (Nylon) rubber gasket K 2-0.26) yes 4	IP6: NE  1.7 4 and ≤ 4.8-6.5 (0. 6 . ≤ 6.4-9.5 (0.)	carbon steel, zinc plated  5 MA 4/4X 3.8 6 + Shield 3 (12) 19-0.26) + Shield 3 (12)	## FDA certified stainless steel silicon IP69K ## 3.0 ## 5.0-5.4 ## (0.197-0.21)** ## 5.8-6.3; ## 6.8-7.1; ## 9.4-10.4 ## (0.23-0.25; 0.265-0.28; 0.37-0.41)** ## yes ## 4	stainless steel  Polyam rubbe IF  3-6.5 (4	stainless steel 31 ide (Nylon) er gasket e69K 1.2 0.12-0.26) 0.16-0.4) yes	
Protection  Weight, nominal  Load Cell Cable  Home-Run and AUX Cable	Cable entry fitting  Type IP Rating NEMA Rating  No. Conductors Conductor Size  Diameter  No. Conductors Conductor Size  Diameter  No. Conductors Conductor Size  Diameter  Aux conductor Size  Aux cable max. recommended wire resistance 2)  Aux cable max. recommended length of 0.14 mm2 (AWG24) 2)  Aux cable max. recommended	mm2 (AWG) mm (in) mm2 (AWG) mm (in)  O m (ft)	1.1 4-8 (0.16-0.32) 6-12 (0.24-0.48)	Polyamide  IP69  1.2  3-6.5 (0.1:  4-8 (0.16)  0.5  2.5 (8)	steel 316 (Nylon) rubber gasket K 2-0.26) yes 4	IP6: NE 1.7 4 and ≤ 4.8-6.5 (0. 6.4-9.5 (0.:  1.5 8 (26)	carbon steel, zinc plated  5 MA 4/4X 3.8 6 + Shield 3 (12) 19-0.26) + Shield 3 (12)	FDA certified stainless steel silicon IP69K  3.0  "5.0-5.4 (0.197-0.21)"  "5.8-6.3; 6.8-7.1; 9.4-10.4 (0.23-0.25; 0.265-0.28; 0.37-0.41)"  yes  4  0.5  2.5 (8.3)	stainless steel  Polyam rubbe IF  3-6.5 (I	stainless steel 31 side (Nylon) er gasket 269K 1.2 0.12-0.26) 0.16-0.4) yes 4 0.5 6 (8.3)	
Protection  Weight, nominal  Load Cell Cable  Home-Run and AUX Cable	Cable entry fitting  Type IP Rating NEMA Rating  No. Conductors Conductor Size  Diameter  No. Conductors Conductor Size  Diameter  No. Conductors Conductor Size  Diameter  Aux. conductor Size  Diameter  Possible Max. no. of load cells for 1st box  AuX cable max. recommended wire resistance 2)  AuX cable max. recommended length of 0.14 mm2 (AWG24) 2)  AuX cable max. recommended length of 0.5 mm2 (AWG20)	mm2 (AWG) mm (in) mm2 (AWG) mm (in)	1.1 4-8 (0.16-0.32) 6-12 (0.24-0.48)	Polyamide  IP69  1.2  3-6.5 (0.12  4-8 (0.16	steel 316 (Nylon) rubber gasket K 2-0.26) yes 4	IP66 NE 1.7 4 and ≤ 4.8-6.5 (0. 6.4-9.5 (0	carbon steel, zinc plated  55  MA 4/4X  3.8 6 + Shield 3 (12) 19-0.26) + Shield 3 (12)  25-0.48)	FDA certified stainless steel silicon IP69K 3.0  "5.0-5.4 (0.197-0.21)"  "5.8-6.3; 6.8-7.1; 9.4-10.4 (0.23-0.25; 0.265-0.28; 0.37-0.41)" yes 4  0.5	stainless steel  Polyam rubbe IF  3-6.5 (I	stainless steel 31 side (Nylon) er gasket e69K 1.2 0.12-0.26) 0.16-0.4) yes 4	
Protection  Weight, nominal  Load Cell Cable  Home-Run and AUX Cable	Cable entry fitting  Type IP Rating NEMA Rating  No. Conductors Conductor Size Diameter No. Conductors Conductor Size  Diameter  No. Conductors Conductor Size  Diameter  No. Conductors Conductor Size  Diameter  Aux. conductor Size  Diameter  Possible Max. no. of load cells for 1st box  AUX cable max. recommended wire resistance 2)  AUX cable max. recommended length of 0.14 mraz (AWG24) 2)  AUX cable max. recommended length of 0.5 mraz (AWG20)  Suitable 3)	mm2 (AWG) mm (in) mm2 (AWG) mm (in)  O m (ft) m (ft)	1.1 4-8 (0.16-0.32) 6-12 (0.24-0.48)	Polyamide  IP69  1.2  3-6.5 (0.1:  4-8 (0.16)  0.5  2.5 (8)	steel 316 (Nylon) rubber gasket K 2-0.26) yes 4	IP6: NE 1.7 4 and ≤ 4.8-6.5 (0. 6.4-9.5 (0.  1.5 8 (26) 30 (100)	carbon steel, zinc plated  55  MA 4/4X  3.8 6 + Shield 3 (12) 19-0.26) + Shield 3 (12)  25-0.48)  no	FDA certified stainless steel silicon IP69K  3.0  "5.0-5.4 (0.197-0.21)"  "5.8-6.3; 6.8-7.1; 9.4-10.4 (0.23-0.25; 0.265-0.28; 0.37-0.41)"  yes  4  0.5  2.5 (8.3)	stainless steel  Polyam rubbe IF  3-6.5 (I	stainless steel 31 side (Nylon) er gasket 269K 1.2 0.12-0.26) 0.16-0.4) yes 4 0.5 6 (8.3)	
Protection  Weight, nominal  Load Cell Cable  Home-Run and AUX Cable  Extension via AUX port	Cable entry fitting  Type IP Rating NEMA Rating  No. Conductors Conductor Size  Diameter  No. Conductors Conductor Size  Diameter  No. Conductors Conductor Size  Diameter  Aux. conductor Size  Diameter  Possible Max. no. of load cells for 1st box  AuX cable max. recommended wire resistance 2)  AuX cable max. recommended length of 0.14 mm2 (AWG24) 2)  AuX cable max. recommended length of 0.5 mm2 (AWG20)	mm2 (AWG) mm (in)  mm2 (AWG)  mm (in)  Ω m (ft) m (ft) %	1.1 4-8 (0.16-0.32) 6-12 (0.24-0.48)	Polyamide  IP69  1.2  3-6.5 (0.1:  4-8 (0.16)  0.5  2.5 (8)	steel 316 (Nylon) rubber gasket K 2-0.26) yes 4	IP6: NE 1.7 4 and ≤ 4.8-6.5 (0. 6.4-9.5 (0.  1.5 8 (26) 30 (100)	carbon steel, zinc plated  55  MA 4/4X  3.8 6 + Shield 3 (12) 19-0.26) + Shield 3 (12)  25-0.48)	FDA certified stainless steel silicon IP69K 3.0  "5.0-5.4 (0.197-0.21)"  "5.8-6.3; 6.8-7.1; 9.4-10.4 (0.23-0.25; 0.265-0.28; 0.37-0.41)" yes 4  0.5  2.5 (8.3)  10 (33)	stainless steel  Polyam rubbe IF  3-6.5 ((	stainless steel 31 side (Nylon) er gasket er egsket er egsket 0.12-0.26) 0.16-0.4) yes 4 0.5 6 (8.3) 0 (33)	
Protection  Weight, nominal  Load Cell Cable  Home-Run and AUX Cable	Cable entry fitting  Type IP Rating NEMA Rating  No. Conductors Conductor Size Diameter  No. Conductors Conductor Size  Diameter  No. Conductors Conductor Size  Diameter  Aux conductor Size  Diameter  Possible Max. no. of load cells for 1st box Aux cable max. recommended wire resistance 2) Aux cable max. recommended length of 0.14mm2 (AWG24) 2) Aux cable max. recommended length of 0.5mm2 (AWG20)  Suitable 3) Impact of J box on Signal	mm2 (AWG) mm (in) mm2 (AWG) mm (in)  O m (ft) m (ft)	1.1 4-8 (0.16-0.32) 6-12 (0.24-0.48)	Polyamide  IP69  1.2  3-6.5 (0.1:  4-8 (0.16)  0.5  2.5 (8)	steel 316 (Nylon) rubber gasket K 2-0.26) yes 4	IP6: NE 1.7 4 and ≤ 4.8-6.5 (0. 6.4-9.5 (0.  1.5 8 (26) 30 (100)	carbon steel, zinc plated  55  MA 4/4X  3.8 6 + Shield 3 (12) 19-0.26) + Shield 3 (12)  25-0.48)  no	FDA certified stainless steel silicon IP69K  3.0  "5.0-5.4 (0.197-0.21)"  "5.8-6.3; 6.8-7.1; 9.4-10.4 (0.23-0.25; 0.265-0.28; 0.37-0.41)"  yes  4  0.5  2.5 (8.3)	stainless steel  Polyam rubbe IF  3-6.5 ((	stainless steel 31 side (Nylon) er gasket 269K 1.2 0.12-0.26) 0.16-0.4) yes 4 0.5 6 (8.3)	

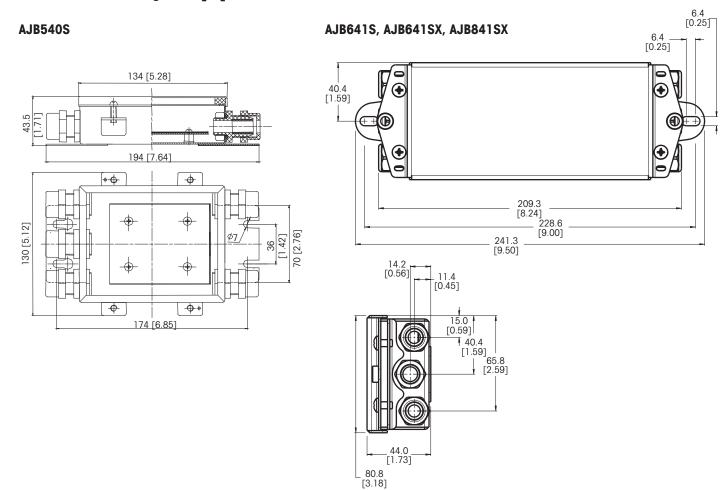
Impact of junction box due to resistor tolerances
 Assuming 50 % shift adjustment range left
 In conjunction with MT CalFree™ terminals
 See certificate for complete information



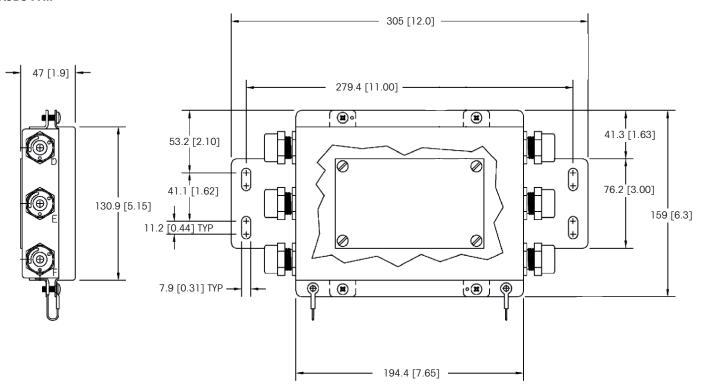




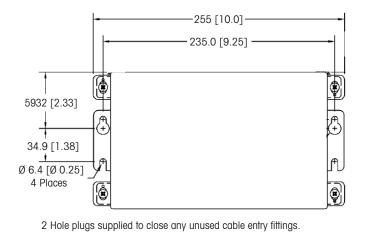
#### Dimensional Drawings mm [in]

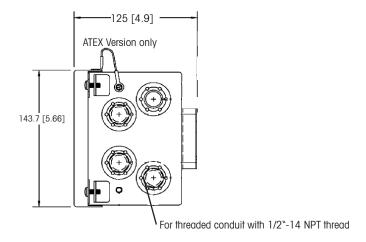


#### AJB541M

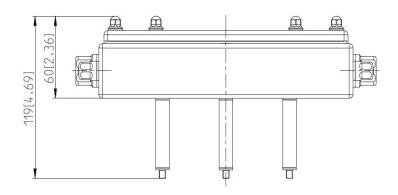


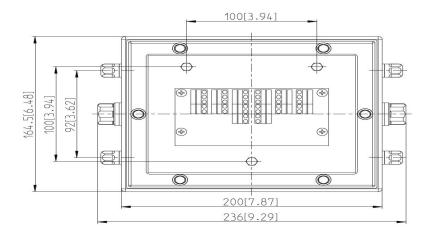
#### AJB540L





#### AJB941M





#### **Precision Junction Boxes Order Information**

Model	Description	Item No.
AJB540S	Precision Junction Box, small, IP65	30206112
AJB641S	Precision Junction Box, small, IP69K	30206108
AJB841S	Precision Junction Box, small, IP69K, 316SS	30070226
AJB541M	Precision Junction Box, medium, IP65	30206111
AJB540L	Precision Junction Box, large, IP65	30206113
AJB941M	Precision Junction Box, medium, hygienic, IP69K	30219978
AJB641SX	Precision Junction Box, small, ATEX/IECEx, IP69K	30070224
AJB841SX	Precision Junction Box, small, ATEX/IECEx, IP69K , 316SS	30070225

**Bolded entries are stocked** 

#### **Global Approvals**

The Precision Junction Box is provided with all listed approvals. No need to think about options and additional charges. Simplifies the conduct of global business, order processing and service-part stocking.









#### **METTLER TOLEDO Service**

Our extensive service network is among the best in the world and ensures maximum availability and service life of your product.

#### **Weighing Electronics**

METTLER TOLEDO offers a complete family of electronics from simple weighing to application solutions for filling, stock control, batching, formulation, counting, checkweighing.



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For more information





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