



## Transmitters

## Transmitters

## Analogue Transmitters

## Digital Transmitters

	TX11 	TX12 	TX13 / TX13VL 	TX2 	TX4 	BX18 	MX08 
<b>Approval / Features</b>							
EU approval / OIML features	—	—	—	—	—	—	—
Range	Single range			Single range			
Load cell type	Analogue load cell					Analogue load cell	
Scale input quantity Maximum	1	1	1	1	1	1	8
ATEX / IECEx Approval	—	—	—	—	—	—	—
Display	3 x status LED			3 x status LED		6 digits, LED, 14 mm high	Δ 5 digits LED, red
eCal electronic calibration	—	☺	☺	☺	☺	☺	☺
Set-up from PC by Indface software	—	☺	☺	☺	☺	—	☺
Alibi memory	—	—	—	—	—	—	—
<b>Applications</b>							
Basic weighing	☺	☺	☺	☺	☺	☺	☺
Process weighing	☺	☺	☺	☺	☺	☺	☺
Piece counting	—	—	—	—	—	—	—
Checkweighing / Classifying	—	—	—	—	—	—	—
Basic Filling/ Manual Packing	—	—	—	—	—	—	—
Automatic Packing / Filling	—	—	—	—	—	—	—
Accumulation	—	—	—	—	—	☺	—
Peak hold / Display hold	—	—	—	—	—	☺	—
Automatic checkweighing / Sorting	—	—	—	—	—	—	—
Discontinuous Totalizer, Flow rate control	—	—	—	—	—	—	—
Truck scale software	—	—	—	—	—	—	—
Labeling / Report	—	—	—	—	—	—	—
Force measurement	—	—	☺	☺	☺	☺	☺
Memory for applications	—	—	—	—	—	—	—
Data logging	—	—	—	—	—	—	—
Other			Analog out for motor control (TX13VL)				
<b>Communication &amp; Input / Output</b>							
RS 232C Serial interface	—	1 (for programming)	1	1	Δ	1	1
RS 485 Serial interface	—	—	—	Δ	Δ	1	Δ
Ethernet TCP/IP	—	—	—	Δ	Δ	—	Δ
Profinet / Profibus DPV1	—	—	—	Δ	Δ	—	Δ
EtherNet IP / EtherCAT / Powerlink	—	—	—	Δ	Δ	—	Δ
Modbus RTU / Modbus TCP	—	—	Δ Modbus RTU	Δ	Δ	Modbus RTU	Δ
CANopen	—	—	—	Δ	Δ	—	—
CC-Link	—	—	—	Δ	Δ	—	—
USB	—	—	—	—	—	—	—
Bluetooth / Wifi	—	—	—	—	—	—	—
Digital inputs / Outputs	—	2 out	1 In / 2 out	—	1 out, 2 In / Out	4 in / 6 out	Max 32 in / 32 out
Analogue Output	☺	☺	☺	—	—	☺	—
<b>Environment &amp; Enclosure</b>							
Housing & IP protection	Polyamide, DIN-rail mount, IP20			Polyamide, DIN-rail mount, IP20			
Power Supply	12 - 28 VDC		12-28 VDC (TX13) / 9-28 VDC (TX13VL)	10 - 28 VDC	10 - 28 VDC	12 - 28 VDC	10 - 28 VDC
Battery	—	—	—	—	—	—	—
Operating Temperature	-15°C and +55°C			-15°C and +55°C			
Dimensions (H x W x D)	114,5 x 22,5 or 45 x 99			114,5 x 22,5 or 45 x 99	114,5 x 22,5 or 45 x 99	89,7x 107,6 x 62,2	114,5 x 22,5 or 45 x 99

☺ Standard ☺ Option — Not available Δ Varyant

☺ Standard ☺ Option — Not available Δ Varyant

Weighing Indicators (Desk / Wall type)				Weighing Indicators (Desk / Wall type)			Weighing Terminals
	BX21	BX21S	BX22S	BX23 (D)	BX24 (D)	BX25 (D)	BX61
<b>Approval / Features</b>							
EU approval / OIML features	OIML R76, class III 10000 divisions			OIML R76, class III 10000 divisions			OIML class III, 6.000 d
Range	Single range, up to 2x MR			Single range, up to 3 x MR / MI			Single range, multi range
Load cell type	Analogue load cell			Analogue load cell ( or Δ Digital load cell )			Analogue load cell
Scale input quantity Maximum	1	1	1	1	1	2 and Sum Scale	4
ATEX / IECEx Approval	—	—	—	—	—	—	—
Display	LCD with 25mm digit height, multicolor ( only S variants )			LCD, multicolor, 6 digits 22 mm weight display, 16 digits 8 mm alphanumeric display			TFT 5.7" Touchscreen
eCal electronic calibration	—	—	—	☺	☺	☺	—
Set-up from PC by Indface software	—	—	—	☺	☺	☺	—
Alibi memory	—	—	☺	☺	☺	☺	—
<b>Applications</b>							
Basic weighing	☺	☺	☺	☺	☺	☺	☺
Process weighing	—	—	—	☺	☺	☺	—
Piece counting	☺	☺	—	—	☺	☺	☺
Checkweighing / Classifying	☺	☺	☺	—	☺	☺	☺
Basic Filling/ Manual Packing	—	—	—	—	☺	☺	—
Automatic Packing / Filling	—	—	—	—	—	—	—
Accumulation	☺	☺	☺	—	☺	☺	☺
Peak hold / Display hold	—	—	—	—	—	—	—
Automatic checkweighing / Sorting	—	—	—	—	—	—	—
Discontinuous Totalizer, Flow rate control	—	—	—	—	—	—	—
Truck scale software	—	—	—	—	—	—	—
Labeling / Report	—	—	—	☺	☺	☺	Customised
Force measurement	☺	☺	☺	—	—	—	—
Memory for applications	☺	☺	☺	—	☺	☺	☺
Data logging	—	—	—	☺	☺	☺	—
Other	—	—	Δ Lightning protection	Δ Lightning protection	Δ Lightning protection	Δ Lightning protection	Formulation
<b>Communication &amp; Input / Output</b>							
RS 232C Serial interface	1	1	2	2 isolated	2 isolated	2 isolated	2
RS 485 Serial interface	—	—	—	1	1	1	—
Ethernet TCP/IP	—	—	—	☺	☺	☺	☺
Profinet / Profibus DPV1	—	—	—	☺	—	☺	—
EtherNet IP / EtherCAT / Powerlink	—	—	—	☺	—	☺	—
Modbus RTU / Modbus TCP	—	—	—	☺	—	☺	☺
CANopen	—	—	—	☺	—	☺	—
CC-Link	—	—	—	☺	—	☺	—
USB	—	—	—	☺	☺	☺	2
Bluetooth / Wifi	☺	☺	☺	☺	☺	☺	☺
Digital inputs / Outputs	—	—	—	☺ (4 in / 5 out)	☺ (4 in / 5 out)	☺ (4 in / 5 out)	4 in / 4 out
Analogue Output	—	—	—	☺	☺	☺	—
<b>Environment &amp; Enclosure</b>							
Housing & IP protection	ABS, IP30	Stainless steel, IP65	Stainless steel, IP67	Stainless steel, IP67			ABS IP54 or Stainless steel IP66 Panel
Power Supply	12 VDC	100-240 VAC, 50-60 Hz, Δ12 VDC		100-240 VAC, 50-60 Hz or 12-28 VDC			120-230 VAC Adaptor
Battery	☺	☺	☺	—	—	—	—
Operating Temperature	-15°C and +55°C			-15°C ~ +55°C			-10°C ~ +40°C
Dimensions ( H x W x D )	220 x 110 x 55	134 x 224 x 74	187 x 224 x 92	Desk type : 250 x 180 x 85 mm Wall type : 260 x 200 x 64 mm			ABS 215 x 156 x 67 mm

Weighing Terminals				Exproof Indicators			
	BX65	BX66 / BX66W	BX67W	BX23 Ex2/22	BX24 Ex2/22	BX25 Ex2/22	BX2n Ex1/21
<b>Approval / Features</b>							
EU approval / OIML features	OIML class III, 10.000 division		10.000 division	OIML R76, class III, 10000 divisions			
Range	Single range, multi range or multi interval		Single range	Single range, up to 3x MR / MI			
Load cell type	Analogue load cell			Analogue load cell			
Scale input quantity Maximum	1	2	4	1	1	2 and Sum Scale	2 and Sum Scale
ATEX / IECEx Approval	—	—	—	ATEX II 3G Ex ic ec [ic] IIC T6 (Gases) ; II 3D Ex ic tc [ic] IIIC T85 IP67 (Dust) IECEx Gases Ex ic ec [ic] IIC T6 Gc ; Dust Ex ic tc [ic] IIIC T85 Dc IP67			Certification in progress
Display	TFT 7" Touchscreen	TFT 10" Touchscreen	TFT 15" Touchscreen	LCD, multicolor, 6 digits 22 mm weight display, 16 digits 8 mm alphanumeric display			
eCal electronic calibration	☺	☺	☺	☺	☺	☺	☺
Set-up from PC by Indface software	—	—	—	☺	☺	☺	☺
Alibi memory	☺	☺	☺ ( industrial )	☺	☺	☺	☺
<b>Applications</b>							
Basic weighing	☺	☺	☺	☺	☺	☺	☺
Process weighing	—	—	—	☺	☺	☺	☺
Piece counting	—	—	—	—	☺	☺	☺
Checkweighing / Classifying	—	—	—	—	☺	☺	☺
Basic Filling/ Manual Packing	—	—	—	—	☺	☺	☺
Automatic Packing / Filling	—	—	—	—	—	—	—
Accumulation	—	—	—	—	☺	☺	☺
Peak hold / Display hold	—	—	—	—	—	—	—
Automatic checkweighing / Sorting	—	—	—	—	—	—	—
Discontinuous Totalizer, Flow rate control	—	—	—	—	—	—	—
Truck scale software	☺	☺	☺	—	—	—	—
Labeling / Report	☺	☺	☺	☺	☺	☺	☺
Force measurement	—	—	—	—	—	—	—
Memory for applications	☺	☺	☺	—	☺	☺	☺
Data logging	☺	☺	☺	☺	☺	☺	☺
Other	Δ Lightning protection Statistical quality control	Δ Lightning protection Customised software	Customised software				
<b>Communication &amp; Input / Output</b>							
RS 232C Serial interface	1	1	2	2 isolated	2 isolated	2 isolated	2 isolated
RS 485 Serial interface	—	—	—	1	1	1	1
Ethernet TCP/IP	☺	☺	☺	☺	☺	☺	☺
Profinet / Profibus DPV1	—	—	—	☺	—	☺	☺
EtherNet IP / EtherCAT / Powerlink	—	—	—	☺	—	☺	☺
Modbus RTU / Modbus TCP	—	—	—	☺	—	☺	☺
CANopen	—	—	—	—	—	—	—
CC-Link	—	—	—	☺	—	☺	☺
USB	2	2	2	☺ ( use in safe area )	☺ ( use in safe area )	☺ ( use in safe area )	☺ ( use in safe area )
Bluetooth / Wifi	☺	☺	☺	Δ	Δ	Δ	Δ
Digital inputs / Outputs	☺ ( 4 in / 4 out )	☺ ( 4 in / 4 out )	☺ ( Max 32 in / 32 out )	☺ ( 4 in / 5 out )	☺ ( 4 in / 5 out )	☺ ( 4 in / 5 out )	☺ ( 4 in / 5 out )
Analogue Output	—	—	—	☺	☺	☺	☺
<b>Environment &amp; Enclosure</b>							
Housing & IP protection	Stainless steel, IP30 & IP67		Stainless steel, IP67	Stainless steel, IP67			
Power Supply	90 - 240 VAC, 50 / 60 Hz or 11-28 VDC			100-240 VAC, 50-60 Hz or 12-28 VDC			
Battery	—	—	—	☺ Ex-proof Battery pack			
Operating Temperature	-15°C ~ +55°C			-15°C ~ +55°C			
Dimensions ( H x W x D )	BX65 / BX65H : 235 x 252 x 75 mm	285 x 338 x 90 mm	325 x 400 x 62 mm	Desk type : 250 x 180 x 85 mm Wall type : 260 x 200 x 64 mm			

Process Weighing Indicators & Controllers ( Panel type )

Process Weighing Indicators & Controllers ( Panel type )

	BX10	BX11	BX13 / BX14	BX30(D)	BX30(D) Plus	BX30 Fill	BX30 Total / BX30 Check
<b>Approval / Features</b>							
EU approval / OIML features	OIML R76 (BX10 / BX11 / BX13 / BX14) OIML R107 (BX14), class III, 10000 divisions			OIML R76, class III 10000 divisions		OIML R61, class III 10000 divisions	
Range	Single range			Single range, up to 3x MR / MI		Single range	
Load cell type	Analogue load cell			Analogue load cell ( or Δ Digital load cell )		Analogue load cell	
Scale input quantity Maximum	1	1	1	1	1	1	1
ATEX / IECEx Approval	—	—	—	—	—	—	—
Display	6 digits, 7 segments, LED red, 13,5 mm high			LCD, multicolor, 6 digits 22 mm weight display, 16 digits 8 mm alphanumeric display			
eCal electronic calibration	☺	☺	☺	☺	☺	☺	☺
Set-up from PC by Indface software	☺	☺	☺	—	—	—	—
Alibi memory	—	—	—	☺	☺	☺	☺
<b>Applications</b>							
Basic weighing	☺	☺	☺	☺	☺	☺	☺
Process weighing	☺	☺	☺	☺	☺	☺	☺
Piece counting	—	—	—	—	—	—	—
Checkweighing / Classifying	—	—	—	—	☺	—	☺ BX30 Check
Basic Filling/ Manual Packing	—	—	☺ BX13	—	☺	☺	—
Automatic Packing / Filling	—	—	☺ BX13	—	—	☺	—
Accumulation	☺	☺	☺	☺	☺	☺	☺
Peak hold / Display hold	☺	☺	—	☺	☺	—	—
Automatic checkweighing / Sorting	—	—	—	—	—	—	☺ BX30 Check
Discontinuous Totalizer, Flow rate control	—	—	☺ BX14	—	—	—	☺ BX30 Total
Truck scale software	—	—	—	—	—	—	—
Labeling / Report	—	—	—	☺	☺	☺	—
Force measurement	☺	☺	—	☺	—	—	—
Memory for applications	—	—	—	☺	☺	☺	☺
Data logging	—	—	—	☺	☺	☺	☺
Other						up to 10 peak at peak hold testing	
<b>Communication &amp; Input / Output</b>							
RS 232C Serial interface	1	1	1	1	1	1	1
RS 485 Serial interface	1	1	1	1	1	1	1
Ethernet TCP/IP	—	Δ	Δ	☺	☺	☺	☺
Profinet / Profibus DPV1	—	Δ	Δ	Δ	Δ	Δ	Δ
EtherNet IP / EtherCAT / Powerlink	—	Δ	Δ	Δ	Δ	Δ	Δ
Modbus RTU / Modbus TCP	Δ	RTU (☺) / TCP (Δ)	RTU (☺) / TCP (Δ)	☺	☺	☺	☺
CANopen	—	Δ	Δ	Δ	Δ	Δ	Δ
CC-Link	—	Δ	Δ	Δ	Δ	Δ	Δ
USB	—	—	—	☺	☺	☺	☺
Bluetooth / Wifi	—	—	—	☺	☺	—	—
Digital inputs / Outputs	2 in / 2 out	4 in / 5 out	4 in / 5 out	Δ ( 4 in / 5 out )	Δ ( 4 in / 5 out )	12 digital inputs and 14 digital outputs via In-house digital I/O board or DIN rail mount RIO16 unit.	
Analogue Output	—	Δ	—	Δ	Δ	Δ feeding control	Δ feeding control
<b>Environment &amp; Enclosure</b>							
Housing & IP protection	Plastic front panel, Aluminum body	Stainless steel front panel, aluminum body, stainless steel rear panel / IP65		IP67 stainless steel front panel, aluminium body			
Power Supply	12 - 28 VDC			12 - 28 VDC		12 - 28 VDC	
Battery	—	—	—	—	—	—	—
Operating Temperature	-15 °C to +55°C			-15°C ~ +55°C max.		-15°C ~ +55°C max.	
Dimensions ( H x W x D )	50 x 100 x 100	48 x 96 x 100		108 x 205 x 112,5		108 x 205 x 112,5	