

920i[®] Integrator

Speed Wheel

Magnetic Shaft Encoder

Note: Idler not included and customer is responsible for mounting idler to weigh frame

APPROVALS



WEIGH FRAME SPECIFICATIONS

CONVEYOR WIDTHS:

18 in to 72 in

CAPACITY:

Up to 10,000 tph

BELT SPEED:

Up to 1,200 fpm

ACCURACY GUIDELINES:

Single idler system: 0.5%-1% total error
 Two idler system: 0.25%-0.5% total error
 Three idler system: <0.5% total error
 Four idler system <0.25% total error

SYSTEM ACCURACY:

Guidelines assume clean belt with automatic tensioning system. Accuracy guidelines are typical. System accuracy may vary depending on environmental influences.

APPLICATIONS:

Mining, quarries, bulk material blending, process control applications, utilities, truck/berge/rail loading, retrofit applications

920I INTEGRATOR SPECIFICATIONS

POWER:

Line voltages: 115 or 230 VAC,
 Frequency: 50 or 60 Hz
 Power consumption:
 340 mA, maximum @ 115 VAC (26W) 240 mA @ 230 VAC (26W)

EXCITATION VOLTAGE:

10 ± VDC, 16 x 350Ω or 32 x 700Ω load cells per A/D card

ANALOG SIGNAL INPUT RANGE:

-10 mV to +45 mV

ANALOG SIGNAL SENSITIVITY:

0.3 μV/graduation minimum @ 7.5 Hz
 1.0 μV/graduation typical @ 120 Hz
 4.0 μV/graduation typical @ 960 Hz

A/D SAMPLE RATE:

7.5 to 960 Hz, software selectable

RESOLUTION:

Internal resolution:
 8 million counts
 Weight display resolution: 9,999,999

SYSTEM LINEARITY:

± 0.01% full scale

DIGITAL I/O:

Four I/O channels on CPU board; optional 24-channel I/O expansion boards available

CIRCUIT PROTECTION:

RFI, EMI, ESD protection

SERIAL PORTS:

Four ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available
 Port 1: Full duplex RS-232
 Port 2: RS-232 with CTS/RTS; PS/2 keyboard interface via DB-9 connector
 Port 3: Full duplex RS-232, 20 mA output
 Port 4: Full duplex RS-232, 2-wire RS-485, 20 mA output

DISPLAY:

4.6 in W x 3.4 in H (116 W x 86 mm H), 320 x 240 pixel VGA Liquid Crystal Display (LCD) module with adjustable contrast

KEYBOARD:

27-key membrane panel, tactile feel, PS/2 port for external keyboard connection

OPERATING TEMPERATURE:

Legal: 14°F to 104°F
 (-10°C to +40°C)
 Industrial: 14°F to 122°F
 (-10°C to +50°C)

DIMENSIONS:

Universal: 10.5 in W x 10.9 in H x 4.5 in D
 (266 W x 215 H x 114 mm D)
 Deep Universal: 10.75 in W x 10.75 in H x 5.4 in D
 (273 W x 273 H x 137 mm D)

WEIGHT:

Universal enclosure: 9.5 lb (4.3 kg)
 Panel Mount enclosure: 8.5 lb (3.9 kg)
 Deep Universal: 11 lb (5.0 kg)

RATING/MATERIAL:

NEMA 4X/IP66, stainless steel

APPROVALS:

CE marked;
 UL & C-UL listed (Universal, Deep & Wall Mount Enclosure)
 (Custom Wall Mount approved for 508A) (Optional)
 Panel Mount UL recognized

WARRANTY:

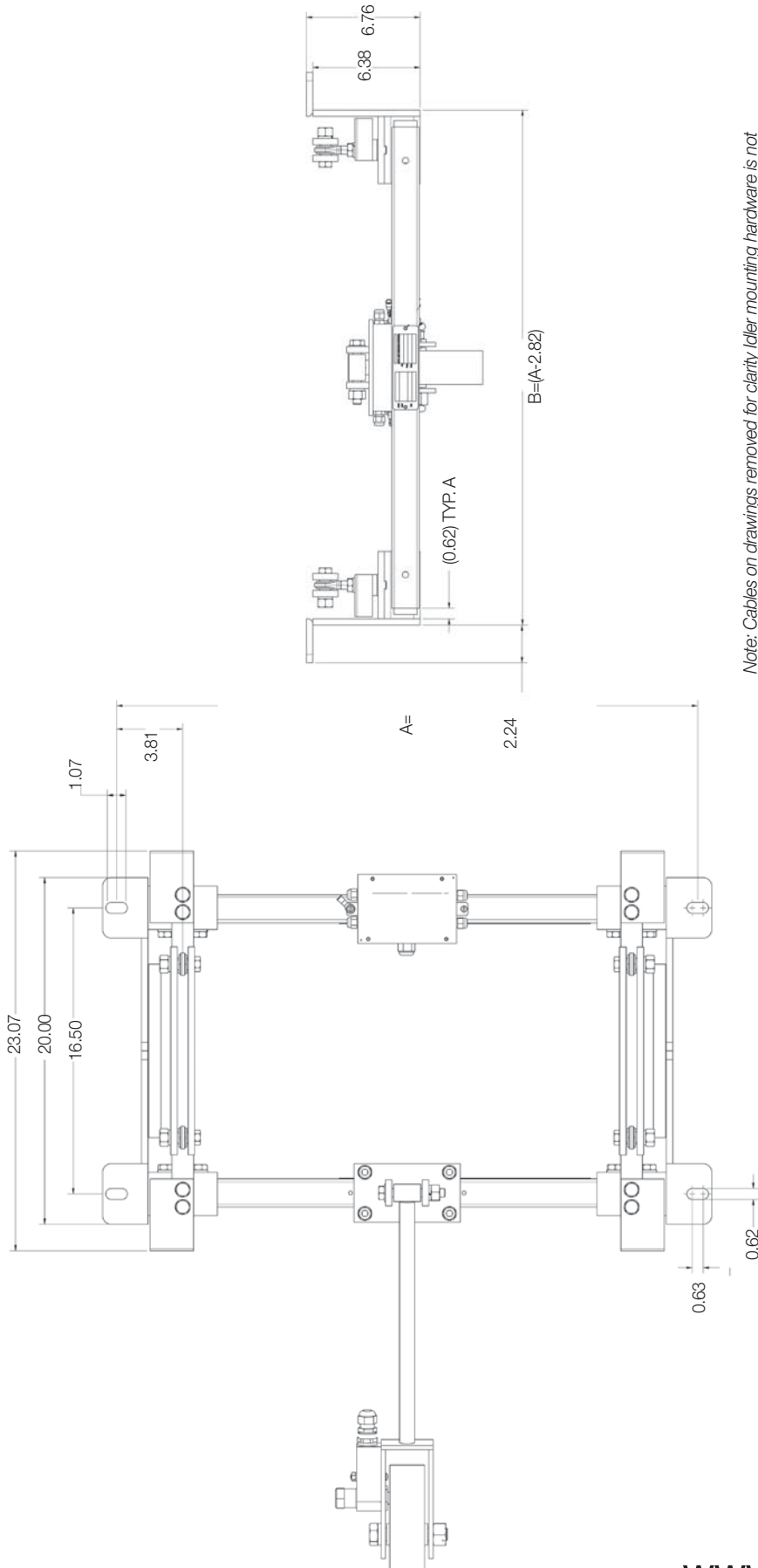
Two-year limited warranty

BELT SCALE TEST WEIGHTS

PART #	DESCRIPTION	ESTIMATED BELT WIDTH	CAPACITY	PRICE
95205.....	20in weigh frame.....	14 in.....	500lb	Consult factory
95206.....	22in weigh frame.....	16 in.....	500lb	Consult factory
94968.....	24in weigh frame.....	18 in.....	500lb	Consult factory
95207.....	26in weigh frame.....	20 in.....	500lb	Consult factory
95208.....	30in weigh frame.....	24 in.....	500lb	Consult factory
95209.....	36in weigh frame.....	30 in.....	500lb	Consult factory
95210.....	42in weigh frame.....	36 in.....	500lb	Consult factory
95211.....	48in weigh frame.....	42 in.....	500lb	Consult factory
95212.....	54in weigh frame.....	48 in.....	500lb	Consult factory
96717.....	60in weigh frame.....	54 in.....	1,000lb	Consult factory
96718.....	66in weigh frame.....	60 in.....	1,000lb	Consult factory
96719.....	72in weigh frame.....	66 in.....	1,000lb	Consult factory
Stainless Steel Weigh Frames				
110837.....				Consult factory
110838.....				Consult factory
110839.....				Consult factory
110840.....				Consult factory
110841.....				Consult factory
110842.....				Consult factory
110843.....				Consult factory
110844.....				Consult factory
110845.....				Consult factory
110846.....				Consult factory
110847.....				Consult factory
105246.....				Consult factory
Integrators				
107615.....	Belt scale integrator with UPS 115 VAC			Consult factory
107616.....	Belt scale integrator with UPS 230 VAC			Consult factory
95214.....	Belt scale integrator 115VAC			Consult factory
95215.....	Belt scale integrator 230VAC			Consult factory
Speed Wheel				
94969.....	Speed wheel assembly		10 PPR NPN Configuration ..	Consult factory
100038.....	Magnetic shaft encoder		12 PPR NPN Configuration ..	Consult factory
104014.....	Magnetic shaft encoder		40 PPR NPN Configuration ..	Consult factory
Idler Mounting Bolts				
98806.....	3 in Angle Iron Base (requires two).....			Consult factory
99323.....	4 in Angle Iron Base (requires two).....			Consult factory
Static Weights				
99708.....	15 lb weight			Consult factory
99709.....	30 lb weight			Consult factory
99696.....	3 in Static Weight Mounting Bracket (Set of 2).....			Consult factory
99922.....	4 in Static Weight Mounting Bracket (Set of 2).....			Consult factory

Belt Scales

Belt Scales



Note: Cables on drawings removed for clarity. Idler mounting hardware is not included in weigh frame, see idler mounting bolts below.