

SOLUTION EXPERIENCE, BOTTOM READ
POWERED BY DATAMAN 380 READERS

<u>TABLE OF CONTENTS</u>
SYSTEMS SPECIFICATIONS
PROJECT SPECIFICATIONS
SOLUTION OVERVIEW WITH BILL OF MATERIAL
SYSTEM & CRITICAL TO QUALITY MEASUREMENTS
ROBOTUNITS FRAME BILL OF MATERIAL

SYSTEM SPECIFICATIONS

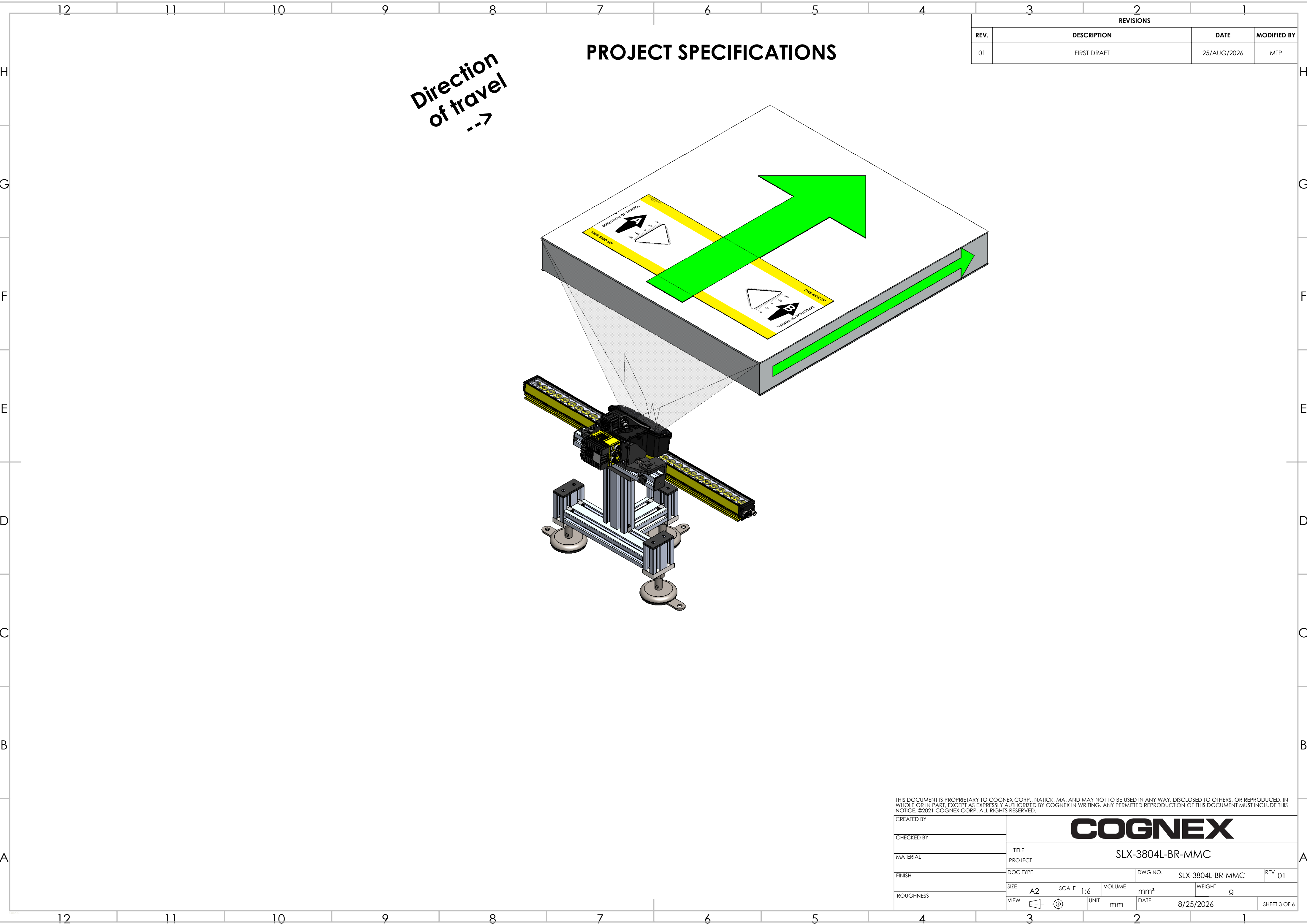
THE SYSTEM OPERATES IN THE FOLLOWING SPECIFICATION RANGE

	MINIMUM	MAXIMUM
CONVEYOR HEIGHT, SLX-BR	492 mm (19.4 in)	-
CONVEYOR HEIGHT, STANDARD FRAME	680 mm (26.8 in)	1400 mm (55.1 in)
CONVEYOR WIDTH		815 mm (32.1 in)
CONVEYOR SPEED	0.02 m/s (4 fpm)	3.3 m/s (650 fpm)
CONVEYOR GAP	*CALCULATED*	-
BARCODE MODULE SIZE	0.25 mm (10 mil)	-
UNDER FOIL	NO	
SIDES SCANNED	BOTTOM	
BOX WIDTH	-	815 mm (32.1 in)
MAXIMUM OBJECT ROTATION	OMNI	

CONVEYOR THICKNESS	MINIMUM CONVEYOR GAP
75mm (3 in)	12mm (0.5 in)
100mm (3.9 in)	14mm (0.5 in)
125mm (4.9 in)	16mm (0.6 in)
150mm (5.9 in)	18mm (0.7 in)
175mm (6.9 in)	20mm (0.8 in)
200mm (7.9 in)	23mm (0.9 in)
225mm (8.9 in)	25mm (1 in)
250mm (9.8 in)	27mm (1.1 in)
275mm (10.8 in)	29mm (1.1 in)
300mm (11.8 in)	31mm (1.2 in)
325mm (12.8 in)	33mm (1.3 in)
350mm (13.8 in)	36mm (1.4 in)

FOR 0 DEGREE SOLUTION, REMOVE ANGLE WEDGE.
THE CONVEYOR GAP REQUIREMENT MAY BE DECREASED
TO 5mm (0.2 in)
NOTE! THIS INCREASES RISK OF GLARE

PLEASE CHECK THIS DESIGN CAREFULLY AGAINST YOUR CURRENT SYSTEM PARAMETERS.
WARNING: Any application outside of this range will impact read rates and might require a redesign .



PROJECT SPECIFICATIONS

REVISIONS			
REV.	DESCRIPTION	DATE	MODIFIED BY
01	FIRST DRAFT	25/AUG/2026	MTP

THIS DOCUMENT IS PROPRIETARY TO COGNEX CORP., NATICK, MA, AND MAY NOT TO BE USED IN ANY WAY, DISCLOSED TO OTHERS, OR REPRODUCED, IN WHOLE OR IN PART, EXCEPT AS EXPRESSLY AUTHORIZED BY COGNEX IN WRITING. ANY PERMITTED REPRODUCTION OF THIS DOCUMENT MUST INCLUDE THIS NOTICE. ©2021 COGNEX CORP. ALL RIGHTS RESERVED.

CREATED BY

CHECKED BY

MATERIAL

FINISH

ROUGHNESS

COGNEX

TITLE

PROJECT

SLX-3804L-BR-MMC

DOC TYPE

SIZE

A2

SCALE

1:6

VOLUME

mm³

WEIGHT

g

DATE

8/25/2026

SHEET 3 OF 6

DWG NO.

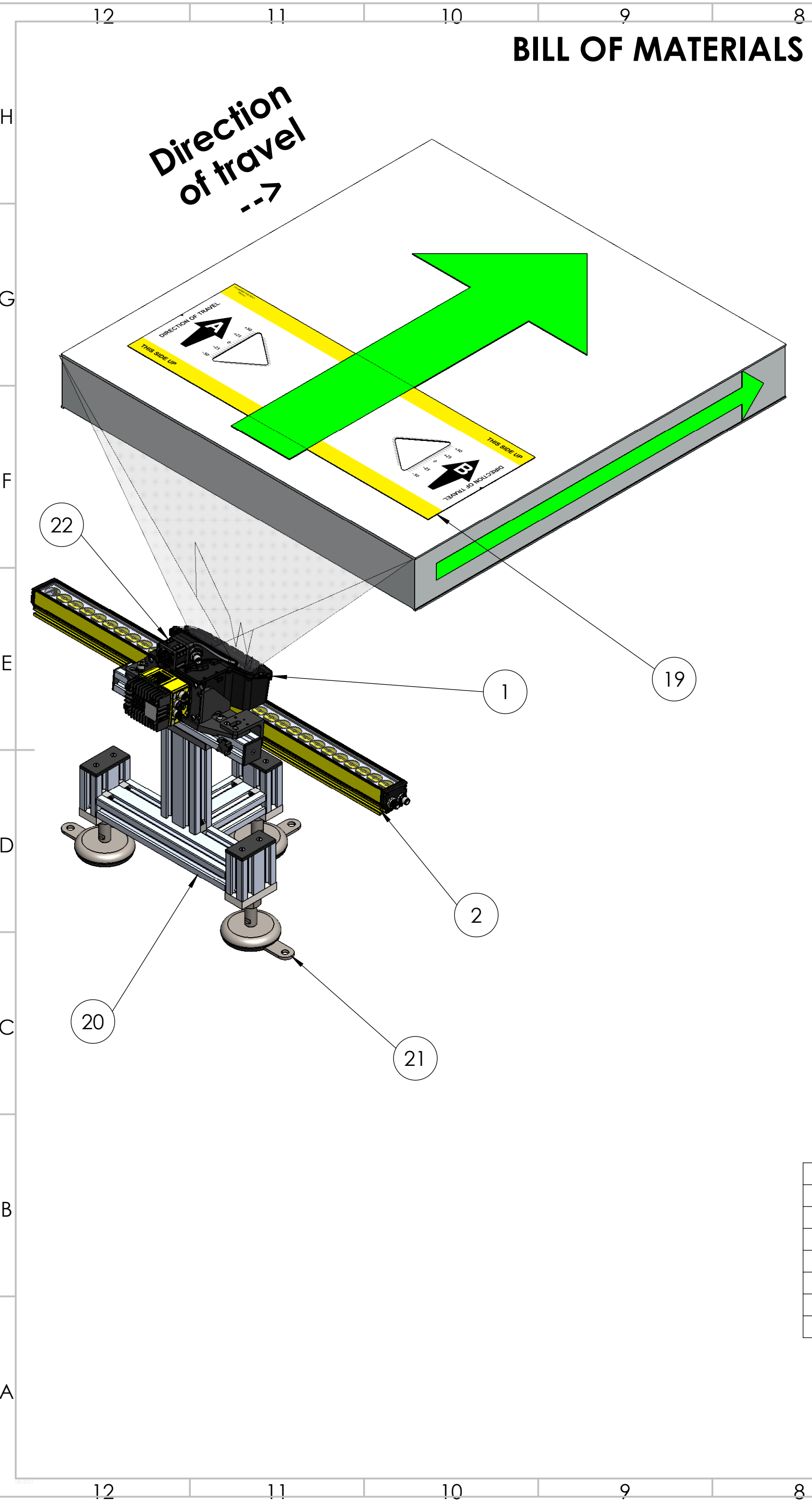
SLX-3804L-BR-MMC

REV

01

UNIT

mm



BILL OF MATERIALS

POS	ZPID	QTY, STANDALONE	QTY, MVT INTEGRATED	QTY, MVT + Mettler	DESCRIPTION
1	SLX-3804L-BR-MMC	1	1	1	CFKIT, SLX-3804L-BR Medium variant , 815mm, 10 mil
2	IVLS-BR800-WHI-P	1	1	1	SLX-BR SVL Light, 800mm, W, Pol, Kit
3	LST-PHOTOEYE-PB	1	0	0	ASSY, STD PHOTOEYE & REFLECTOR KIT
4	LST-ENCODER-000	1	0	0	ENCODER, RH-P240AJ
5	CPS-8A-78-L	1	0	1	Emparro Power Supply 8A 7/8" - L
6	CCB-CPS-A3E111-100	1	0	0	EMPARRO INPUT 7/8" TO C14 1m
7	CCB-CPS-P4541-050	1	0	1	Emparro output 7/8 to L coded
8	CCB-CIO-P4141-300	1	0	0	Power chain L-coded 3m
9	CKR-200-CBL-EXT	1	0	0	CABLE,5M12PINM12MALETOM12FEMALE
10	CCB-84901-2001-05	1	0	0	CABLE5MM12-8MALEJ458CONMALETEAL/BLKO
11	CIO-MB-PNP-L	1	0	0	L-Coded Master Breakout PNP
12	CCB-CIO-40507-500	0	1	1	Shielded Secondary Cable 4pin 5m
13	CCB-CIO-P4141-500	0	1	0	Power chain L-coded 5m
14	CCB-CIO-51001-500	0	1	1	Ethernet chain X-coded 5m
15	CCB-CPS-A3E11-200	0	0	1	Emparro Input 7/8" to C14 2m
16	CCB-PWR-C13-C14-Y	0	0	1	Y-cable, C14 to Dual C13, 15A
17	LGM-IEC-C13-SLEEVE	0	0	2	C13 Secure Sleeve with Tab - Black
18	LGM-CBL-IEC-US-03 *	1	1	1	CABLE, IEC LOCK, US, 3.1M
19	SLX-BR-CALIB-700 §	1	1	1	SLX-BR, Field Alignment Target, 700mm
20	LST-FRAME-SLX-BR-1-M-BeltHeight-Neck	1	1	1	LST, STD SLX BR FRAME
21	LGS-FRAME-FIX-CC †	1	1	1	KIT, LGS-FRAME-FIX-CC
22	SLX-BR-BLOWER	0/1 ‡	0/1 ‡	0/1 ‡	SLX-BR, Blower

* CHOOSE APPROPRIATE COUNTRY CABLE FROM TABLE A
§ CALIBRATION TARGET SLX-BR-CALIB-500 MAY BE USED
† CHOOSE APPROPRIATE FLOOR FIXATION KIT FROM TABLE B
‡ SLX-BR-BLOWER IS AN OPTIONAL COMPONENT

Table A	
ZPID	REGION
LGM-CBL-IEC-US-03	US
LGM-CBL-IEC-EU-03	EU
LGM-CBL-IEC-UK-03	UK
LGM-CBL-IEC-CN-03	CHINA
LGM-CBL-IEC-JP-03	JAPAN
LGM-CBL-IEC-KR-03	KOREA

Table B	
ZPID	FLOOR TYPE
LGS-FRAME-FIX-CC	CONCRETE
LGS-FRAME-FIX-WD	WOOD
LGS-FRAME-FIX-MG	METAL GRATE

CREATED BY

CHECKED BY

MATERIAL

FINISH

ROUGHNESS

TITLE

PROJECT

DOC TYPE

SIZE

VIEW

SCALE

1:6

UNIT

mm

VOLUME

mm³

WEIGHT

g

DWG NO.

SLX-3804L-BR-MMC

REV

01

DATE

8/25/2026

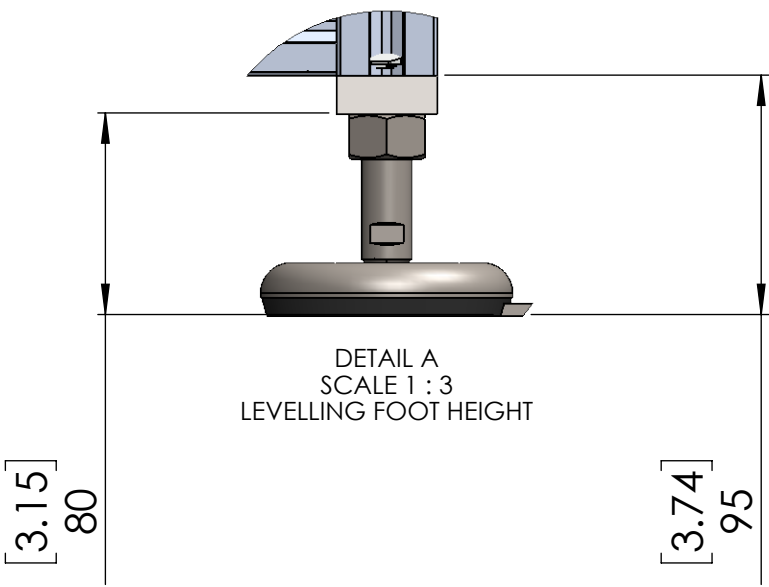
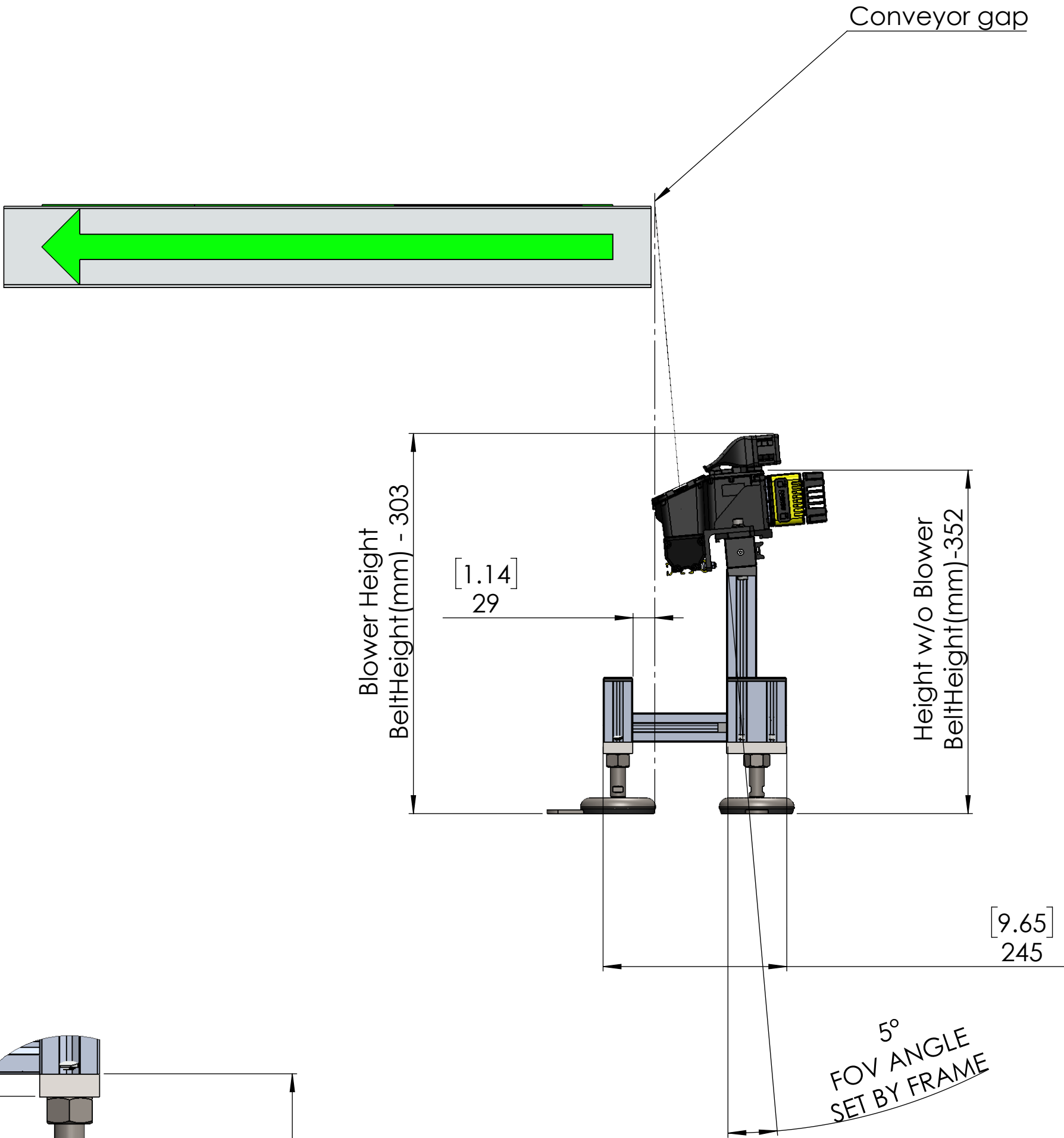
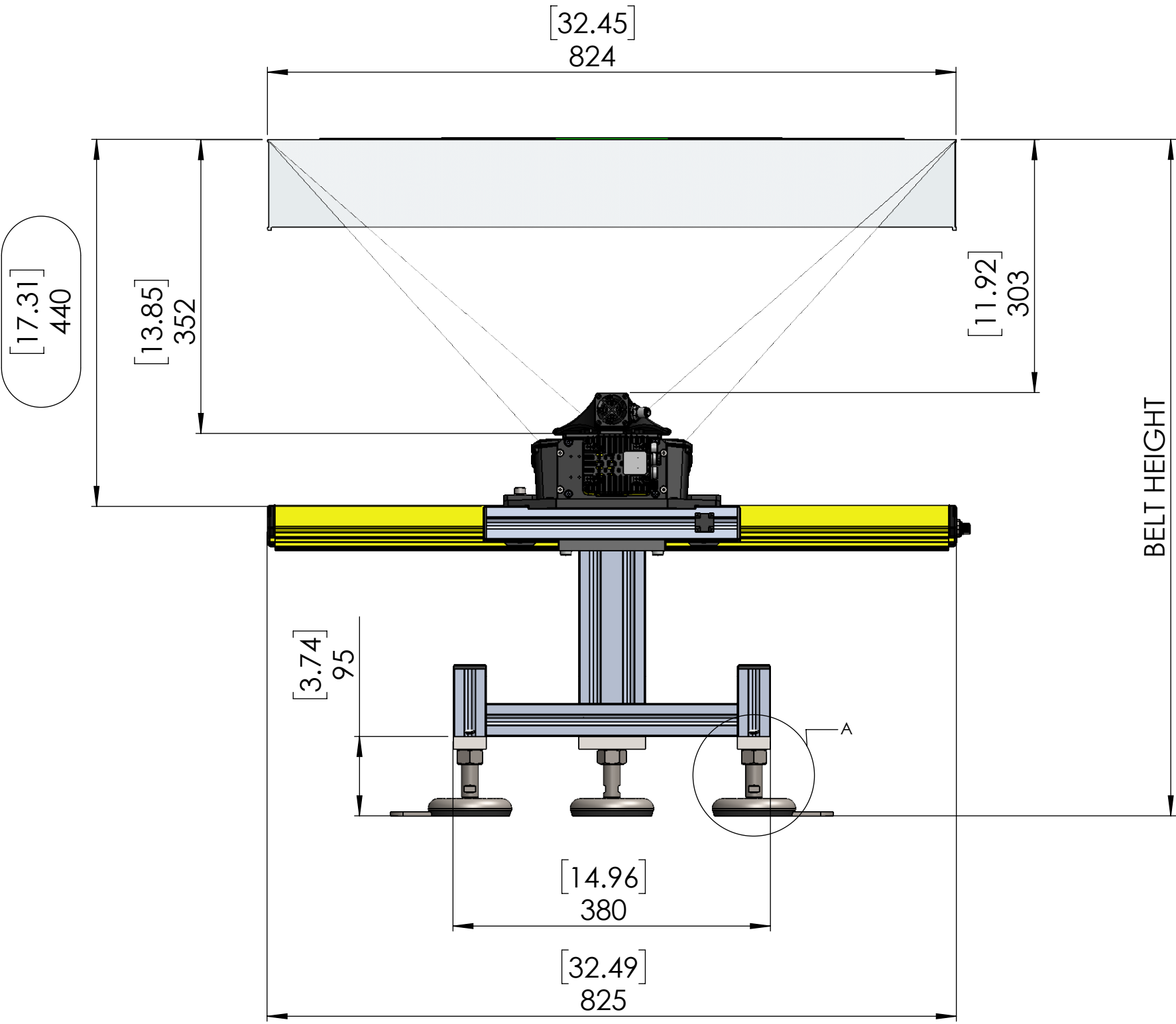
SHEET 4 OF 6

COGNEX

SLX-3804L-BR-MMC

SYSTEM & CRITICAL TO QUALITY MEASUREMENTS

Direction of travel
into page



CTQ#	DIMENSION	DESCRIPTION
#1	[17.31] 440	TOP OF BELT TO TOP OF FRAME

CREATED BY		COGNEX			
CHECKED BY		SLX-3804L-BR-MMC			
MATERIAL		PROJECT			
FINISH		DOC TYPE		DWG NO.	SLX-3804L-BR-MMC
ROUGHNESS		SIZE	A2	SCALE	1:6
		VOLUME	mm³	WEIGHT	g
		VIEW	DATE	8/25/2026	SHEET 5 OF 6

