

Item numbers*	W (width)	P (pitch)	N (number of sensors)	В	C (hole count)
4103, 4203	13.0 [512]	4.00 [157]	3	1.42 [56]	7
4142, 4242		8.00 [315]	2		
4104, 4204	17.0 [669]	4.00 [157]	4	3.42 [135]	8
4105, 4205	21.0	4.00 [157]	5	4.15 [163]	9
4143, 4243	[827]	8.00 [315]	3		
4106, 4206	25.0 [984]	4.00 [157]	6	6.15 [242]	10
4107, 4207	29.0 [1142]	4.00 [157]	7	6.88 [271]	11
4144, 4244		8.00 [315]	4		
4108, 4208	33.0 [1299]	4.00 [157]	8	8.88 [350]	12
4109, 4209	37.0	4.00 [157]	9	9.61 [378]	13
4145, 4245	[1457]	8.00 [315]	5		
4111, 4211	45.0	4.00 [157]	11	12.34 [486]	15
4146, 4246	[1772]	8.00 [315]	6		
4113, 4213	53.0	4.00 [157]	13	15.07 [593]	17
4147, 4247	[2087]	8.00 [315]	7		
4115, 4215	61.0 [2402]	4.00 [157]	15	17.80 [701]	19
4108, 4208		8.00 [315]	8		
4117, 4217	69.0 [2717]	4.00 [157]	17	20.53 [808]	21
4109, 4209		8.00 [315]	9		
4119, 4219	77.0	4.00 [157]	19	23.26 [916]	23
4110, 4210	[3031]	8.00 [315]	10		

*Some items available by special order only.

https://www.pololu.com/category/123 Item number:

Name:

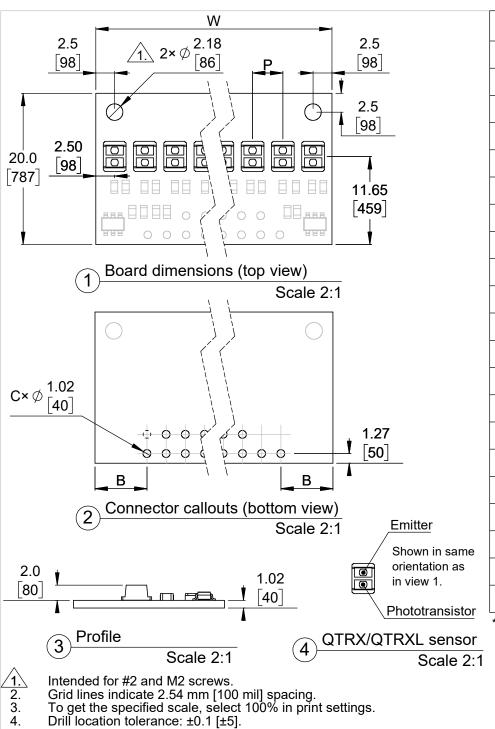
QTR Reflectance Sensor Array

Drawing date: Dev code: 15 February 2019 irs23a-irs39a Units: mm Material: [mil]

see table

Robotics & Electronics © 2019 Pololu Corporation mixed

Drill location tolerance: ±0.1 [±5]. 5. Board edge tolerance: ±0.3 [±10].



Item	() vijeltle)	P (mitala)	N (normalism of consorm)	В	C (bala saviat)
numbers*	(width)	(pitch) 4.00	(number of sensors)		(hole count)
4303, 4403	13.0 [512]	4.00 [157]	3	1.42 [56]	7
4342, 4442		8.00 [315]	2		
4304, 4404	17.0 [669]	4.00 [157]	4	3.42 [135]	8
4305, 4405	21.0	4.00 [157]	5	4.15 [163]	9
4343, 4443	[827]	8.00 [315]	3		
4306, 4406	25.0 [984]	4.00 [157]	6	6.15 [242]	10
4307, 4407	29.0	4.00 [157]	7	6.88 [271]	11
4344, 4444	[1142]	8.00 [315]	4		
4308, 4408	33.0 [1299]	4.00 [157]	8	8.88 [350]	12
4309, 4409	37.0	4.00 [157]	9	9.61 [378]	13
4345, 4445	[1457]	8.00 [315]	5		
4311, 4411	45.0	4.00 [157]	11	12.34	15
4346, 4446	[1772]	8.00 [315]	6	[486]	
4313, 4413	53.0 [2087]	4.00 [157]	13	15.07 [593]	17
4347, 4447		8.00 [315]	7		
4315, 4415	61.0 [2402]	4.00 [157]	15	17.80 [701]	19
4348, 4448		8.00 [315]	8		
4317, 4417	69.0 [2717]	4.00 [157]	17	20.53 [808]	21
4349, 4449		8.00 [315]	9		
4319, 4419	77.0	4.00 [157]	19	23.26 [916]	23
4350, 4450	[3031]	8.00 [315]	10		

*Some items available by special order only.

https://www.pololu.com/category/123

Name:

QTRX Reflectance Sensor Array

Drawing date: Dev code: 15 February 2019 Units: mm Material:

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see table

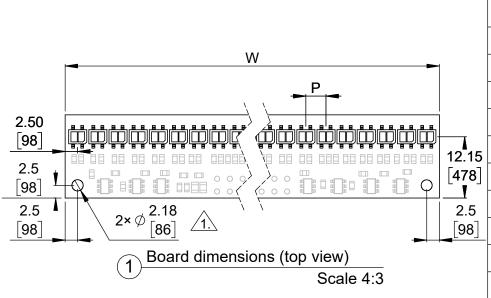
Item number:

[mil]

irs23j-irs39j

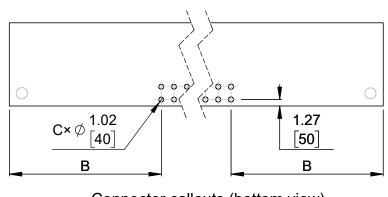
mixed

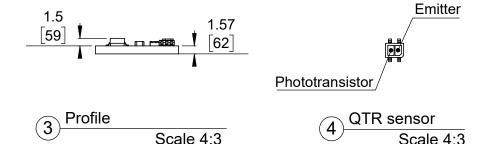
Drill location tolerance: ±0.1 [±5]. 5. Board edge tolerance: ±0.3 [±10].



W (width)	P (pitch)	N (number of sensors)	В	C (hole count)
221 85 251 [3346]	4.00 [157]	21	24.72 [973]	30
	8.00 [315]	11	31.07 [1123]	20
93 [3661]	4.00 [157]	23	27.45 [1081]	32
	8.00 [315]	12	35.07 [1381]	20
101 [3976]	4.00 [157]	25	30.18 [1188]	34
	8.00 [315]	13	37.80 [1488]	22
7 109 4 [4291] 9 117 [4606]	4.00 [157]	27	32.91 [1296]	36
	8.00 [315]	14	41.80 [1646]	22
	4.00 [157]	29	35.64 [1403]	38
	8.00 [315]	15	44.53 [1753]	24
	(width) 85 [3346] 93 [3661] 101 [3976] 109 [4291]	(width) (pitch) 85 [157] [3346] 8.00 [315] 4.00 93 [157] [3661] 8.00 [315] 4.00 101 [157] [3976] 8.00 [315] 4.00 109 [157] [4291] 8.00 [315] 4.00 117 [157] [4606] 8.00	(width) (pitch) (number of sensors) 85 [157] 21 [3346] 8.00 [315] 11 93 [157] 23 [3661] 8.00 [315] 12 4.00 [315] 25 [3976] 8.00 [315] 13 4.00 [157] 27 [4291] 8.00 [315] 14 4.00 [315] 29 [4606] 8.00 15	(width) (pitch) (number of sensors) B 85 [157] 21 24.72 [973] [3346] 8.00 11 31.07 [315] 11 27.45 [1081] [3661] 8.00 23 27.45 [1081] [3661] 8.00 12 35.07 [1381] [315] 4.00 25 30.18 [1188] [3976] 8.00 13 37.80 [1488] [3976] 8.00 27 32.91 [1296] [4291] 8.00 27 32.91 [1296] [4291] 8.00 14 41.80 [1646] 117 [157] 29 35.64 [1403] [4606] 8.00 15 44.53

^{*}Some items available by special order only.





Connector callouts (bottom view) Scale 4:3

> https://www.pololu.com/category/123 Name: Item number:

QTR Reflectance Sensor Array

Drawing date: Dev code: 15 February 2019 irs41a-irs49d Units: mm Material: [mil] mixed

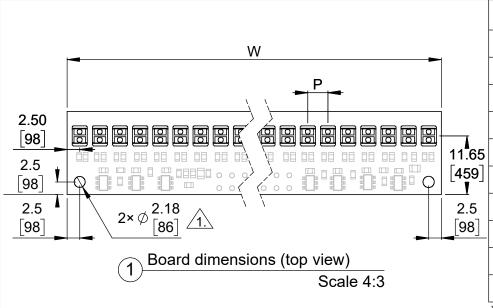
see table **Robotics & Electronics** © 2019 Pololu Corporation

Intended for #2 and M2 screws.

1. 2. 3. 4. Grid lines indicate 2.54 mm [100 mil] spacing.
To get the specified scale, select 100% in print settings.
Drill location tolerance: ±0.1 [±5].

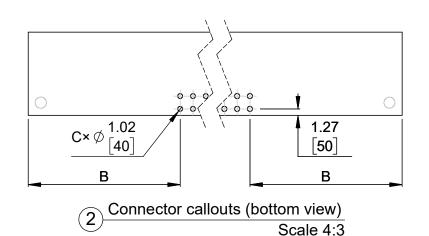
5.

Board edge tolerance: ±0.3 [±10].



	Item numbers*	W (width)	P (pitch)	N (number of sensors)	В	C (hole count)
	4321, 4421	85 [3346]	4.00 [157]	21	24.72 [973]	30
	4351, 4451		8.00 [315]	11	31.07 [1123]	20
	4323, 4423	4.00 [157]	23	27.45 [1081]	32	
	4352, 4452	[3661]	8.00 [315]	12	35.07 [1381]	20
5	4325, 4425	101 [3976]	4.00 [157]	25	30.18 [1188]	34
	4353, 4453		8.00 [315]	13	37.80 [1488]	22
	4327, 4427	109	4.00 [157]	27	32.91 [1296]	36
	4354, 4454	[4291]	8.00 [315]	14	41.80 [1646]	22
	4329, 4429	117 [4606]	4.00 [157]	29	35.64 [1403]	38
	4355, 4455		8.00 [315]	15	44.53 [1753]	24

^{*}Some items available by special order only.





Shown in same orientation as in view 1. Phototransistor

Emitter

Profile Scale 4:3

QTRX/QTRXL sensor Scale 4:3

1. 2. 3. 4.

Intended for #2 and M2 screws.

Grid lines indicate 2.54 mm [100 mil] spacing.
To get the specified scale, select 100% in print settings.
Drill location tolerance: ±0.1 [±5].

5. Board edge tolerance: ±0.3 [±10].

https://www.pololu.com/category/123 Name: Item number: QTRX Reflectance Sensor Array

Drawing date: Dev code: 15 February 2019 irs41j-irs49m Units: mm Material: [mil] mixed

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