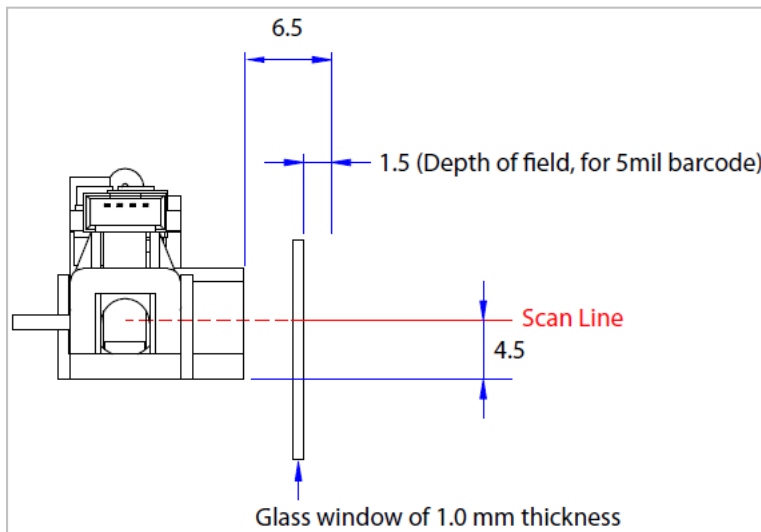


MT41(i) Datasheet (v 1.02)

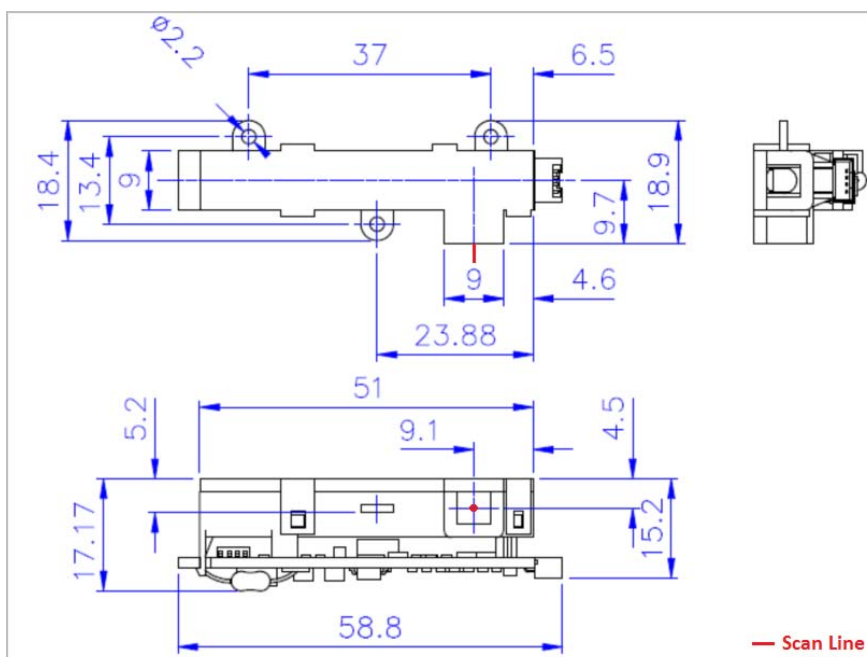
Optical:

Sensor: Photo Diode
 Light Source: Visible Red (MT41) 660nm LED
 Invisible Red (MT41i) 850nm LED
 Resolution: 5 mil (0.127mm)
 Print Contrast Ratio: 60%
 Reading Range (D.O.F): 5.0 ~ 6.5mm (5Mil Code39)

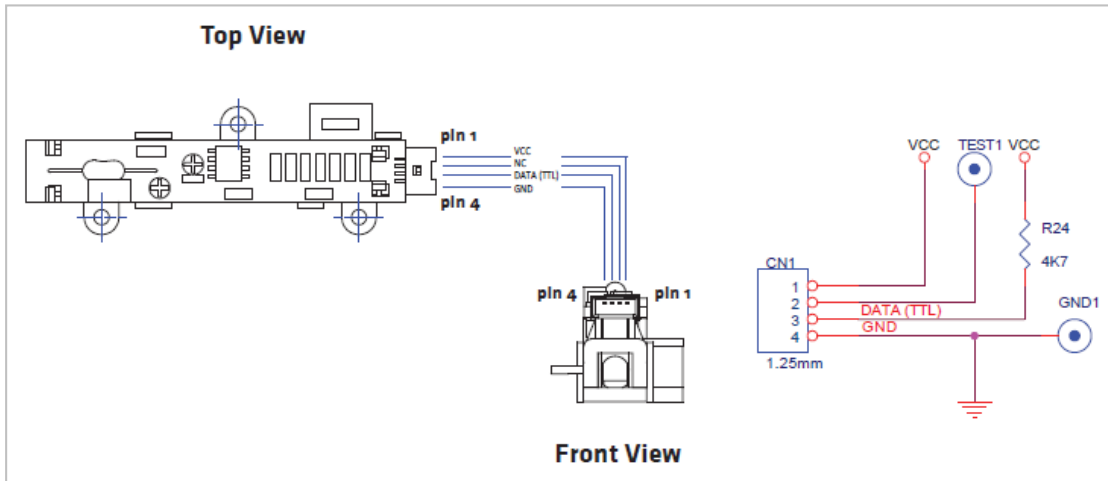


Mechanical:

Housing Material: Plastic(ABS)
 Dimension: 58.8(L) x 18.90(W) x 15.20(H)mm



Impact Tolerance: Operational after 20 drops 1.6M to concrete
 Cable Type: 4-pin header connector (pitch 1.25mm)
 Pin Assignment: Pin1: VCC
 Pin2: NC
 Pin3: DATA (TTL)
 Pin4: GND



Electrical:

Supply Voltage: 5VDC±5%
 Working Current: Visible Red (MT41) < 40mA
 Invisible Red (MT41i) < 20mA
 Power Consumption: 100~200mW
 Output Format: TTL
 Polarity : Black bar = high
 White space = low
 Rise time 10 to 90% 4 μs (R = 1KΩ)
 Fall Time 90 to 10% 1 μs (R = 1KΩ)

Environmental:

Operating Temperature: 0° ~ 50° C
 Storage Temperature: -20° ~ 60° C
 Relative Humidity: 20% ~ 95%RH(Non Condensing)
 Vibration: withstands 5G from 20 to 300 Hz

Certifications & Compliance:

Safety Approval: FCC Class B, CE
 EMI Emission: Functional after 4KV contact, 8KV Air discharge
 Green Product: RoHS

Appendix 1:

4-pin (pitch 1.25mm) Male Connector on MT41(i)

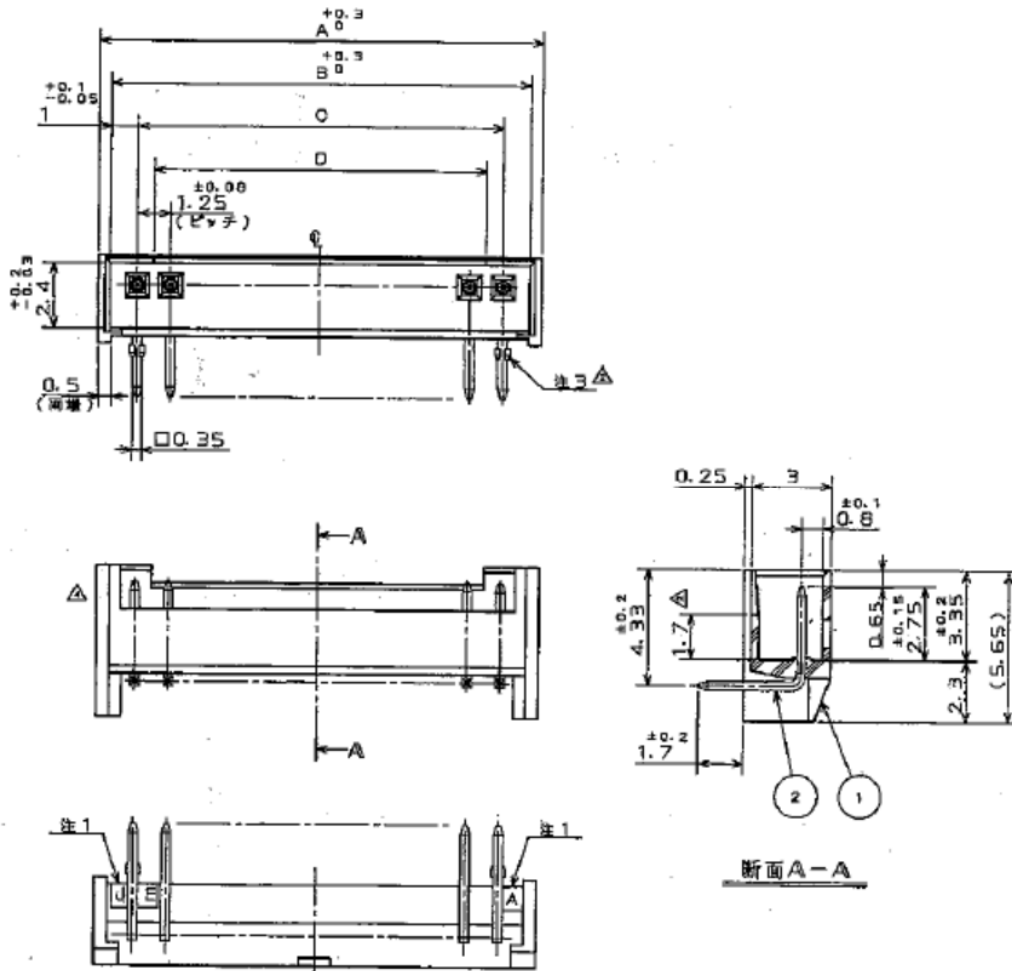
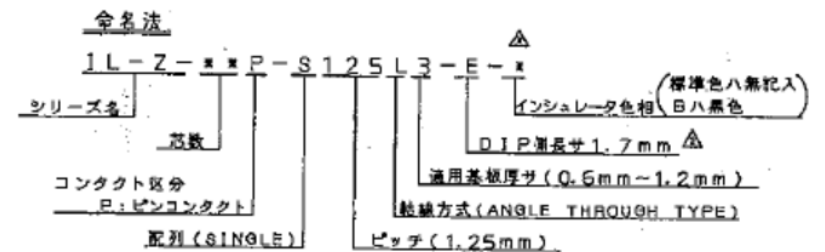


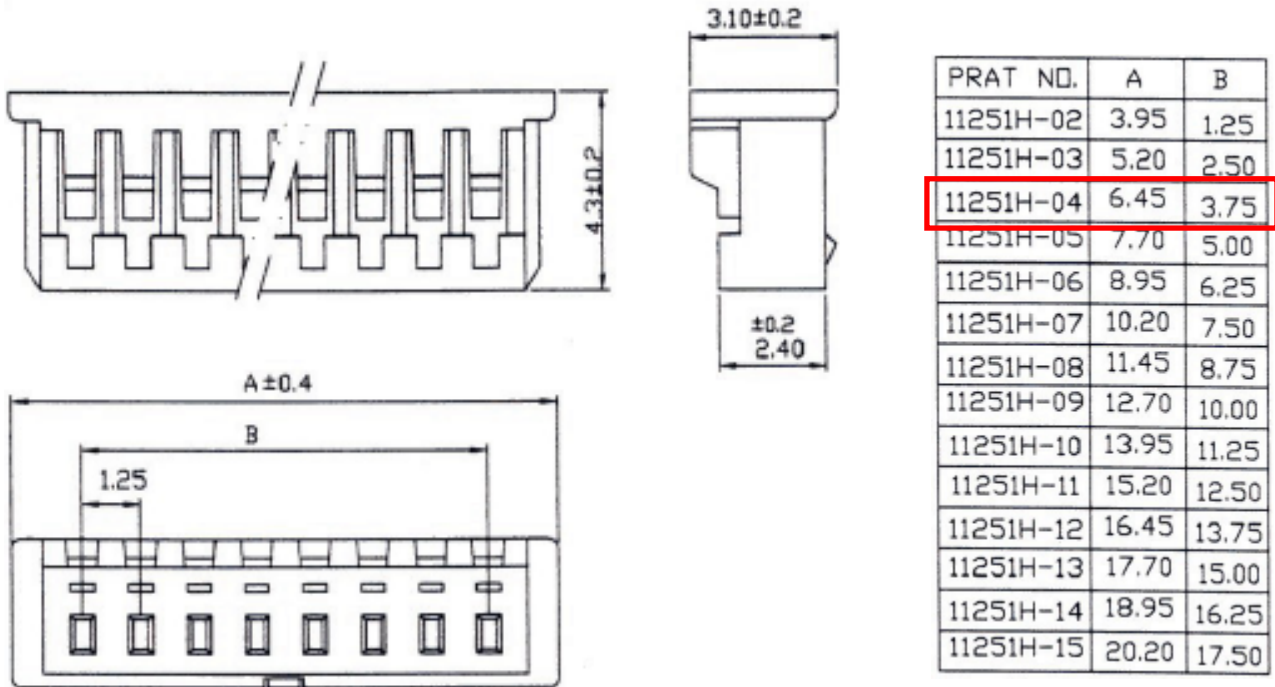
表1

| 芯数 | A ^{+0.3} ₀ | B ^{+0.3} ₀ | C ^{+0.15} ₀ | D ^{+0.25} ₀ |
|----|--------------------------------|--------------------------------|---------------------------------|---------------------------------|
| 2 | 4.15 | 3.25 | 1.25 | 1.7 |
| 3 | 5.4 | 4.5 | 2.5 | 1.7 |
| 4 | 6.65 | 5.75 | 3.75 | 2.5 |
| 5 | 7.9 | 7 | 5 | 3.75 |
| 6 | 9.15 | 8.25 | 6.25 | 5 |
| 7 | 10.4 | 9.5 | 7.5 | 6.25 |
| 8 | 11.65 | 10.75 | 8.75 | 7.5 |
| 9 | 12.9 | 12 | 10 | 8.75 |
| 10 | 14.15 | 13.25 | 11.25 | 10 |
| 11 | 15.4 | 14.5 | 12.5 | 11.25 |
| 12 | 16.65 | 15.75 | 13.75 | 12.5 |
| 13 | 17.9 | 17 | 15 | 13.75 |
| 14 | 19.15 | 18.25 | 16.25 | 15 |
| 15 | 20.4 | 19.5 | 17.5 | 16.25 |



Appendix 2:

4-pin (pitch 1.25mm) Female Connector, to be installed on Host side.



MAT'L: NYLON 66 UL94V-0

MATES WITH: 11251 SERIES TERMINAL

ACCEPTS WITH: 11251PS 11251PR SERIES WAFER