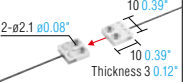
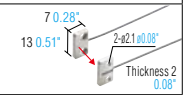
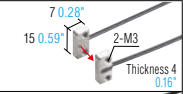
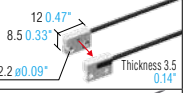
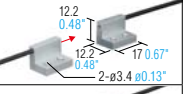
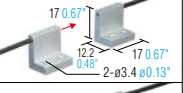
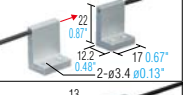
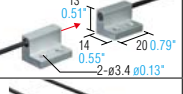
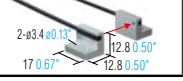


# THRUBEAM MODELS

| Type                    |                                       | Fiber unit length (Diameter),<br>Ambient temperature, Appearance (mm inch)                                                                                | Cable bend<br>radius<br>(mm inch) | Detecting distance (mm inch) <sup>*1</sup> |                                                        | Optical axis<br>diameter (mm inch)<br>(Standard target to be<br>detected) | Minimum<br>detectable object<br>(mm inch) <sup>*2</sup> | Model<br>Weight<br>Case material    |
|-------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------|
| Beam emitting direction |                                       |                                                                                                                                                           |                                   | MEGA<br>FINE                               | Other<br>power modes                                   |                                                                           |                                                         |                                     |
| Top                     |                                       | 1 m 3.3' Free-cut<br>(ø1.0 ø0.04")<br>-40 to +50°C<br>-40 to 122°F<br>   | R2 0.08"<br>ToughFlex             | MEGA: 810<br>FINE: 170                     | ULTRA: 520<br>SUPER: 340<br>TURBO: 260<br>HSP: 90      | ø0.5<br>ø0.02"                                                            | ø0.005<br>ø0.0002"<br>Opaque                            | FU-51TZ<br>Approx. 5 g<br>Aluminum  |
|                         |                                       | 2 m 6.6' Free-cut<br>(ø1.3 ø0.05")<br>-40 to +50°C<br>-40 to 122°F<br>   |                                   | MEGA: 2900<br>FINE: 610                    | ULTRA: 1900<br>SUPER: 1200<br>TURBO: 850<br>HSP: 260   | ø1<br>ø0.04"                                                              |                                                         | FU-52TZ<br>Approx. 15 g<br>Aluminum |
| Flat                    |                                       | 1 m 3.3' Free-cut<br>(ø1.0 ø0.04")<br>-40 to +50°C<br>-40 to 122°F<br>   |                                   | MEGA: 500<br>FINE: 140                     | ULTRA: 340<br>SUPER: 230<br>TURBO: 180<br>HSP: 80      | ø0.5<br>ø0.02"                                                            |                                                         | FU-53TZ<br>Approx. 10 g<br>SUS303   |
|                         |                                       | 2 m 6.6' Free-cut<br>(ø2.2 ø0.09")<br>-40 to +50°C<br>-40 to 122°F<br>   |                                   | MEGA: 2900<br>FINE: 610                    | ULTRA: 1900<br>SUPER: 1200<br>TURBO: 850<br>HSP: 260   | ø1<br>ø0.04"                                                              | FU-54TZ<br>Approx. 25 g<br>SUS303                       |                                     |
|                         |                                       | 2 m 6.6' Free-cut<br>(ø2.2 ø0.09")<br>-40 to +50°C<br>-40 to 122°F<br>   |                                   | MEGA: 1900<br>FINE: 410                    | ULTRA: 1500<br>SUPER: 900<br>TURBO: 700<br>HSP: 270    | ø1.13<br>ø0.044"                                                          | FU-56TZ<br>Approx. 20 g<br>Aluminum                     |                                     |
| Side                    |                                       | 1 m 3.3' Free-cut<br>(ø1.0 ø0.04")<br>-40 to +50°C<br>-40 to 122°F<br>   |                                   | MEGA: 740<br>FINE: 140                     | ULTRA: 480<br>SUPER: 280<br>TURBO: 200<br>HSP: 70      | ø0.5<br>ø0.02"                                                            | FU-57TZ<br>Approx. 5 g<br>SUS303                        |                                     |
| Top                     | Optical axis<br>height<br>10 mm 0.39" | 2 m 6.6' Free-cut<br>(ø2.2 ø0.09")<br>-40 to +50°C<br>-40 to 122°F<br>   |                                   | MEGA: 2200<br>FINE: 450                    | ULTRA: 1700<br>SUPER: 1000<br>TURBO: 760<br>HSP: 290   | ø1.13<br>ø0.044"                                                          | FU-L51Z<br>Approx. 30 g<br>Aluminum                     |                                     |
|                         | Optical axis<br>height<br>15 mm 0.59" | 2 m 6.6' Free-cut<br>(ø2.2 ø0.09")<br>-40 to +50°C<br>-40 to 122°F<br>   |                                   |                                            |                                                        |                                                                           | FU-L52Z<br>Approx. 30 g<br>Aluminum                     |                                     |
|                         | Optical axis<br>height<br>20 mm 0.79" | 2 m 6.6' Free-cut<br>(ø2.2 ø0.09")<br>-40 to +50°C<br>-40 to 122°F<br>   |                                   |                                            |                                                        |                                                                           | FU-L53Z<br>Approx. 30 g<br>Aluminum                     |                                     |
| Top<br>(Built-in lens)  | Optical axis<br>height<br>10 mm 0.39" | 2 m 6.6' Free-cut<br>(ø2.2 ø0.09")<br>-40 to +50°C<br>-40 to 122°F<br>  |                                   | MEGA: 3600<br>FINE: 3100                   | ULTRA: 3600<br>SUPER: 3600<br>TURBO: 3600<br>HSP: 2100 | ø3.5<br>ø0.14"                                                            | ø0.2<br>ø0.01"<br>Opaque                                | FU-L50Z<br>Approx. 30 g<br>Aluminum |
| Side                    | Optical axis<br>height<br>10 mm 0.39" | 2 m 6.6' Free-cut<br>(ø2.2 ø0.09")<br>-40 to +50°C<br>-40 to 122°F<br> |                                   | MEGA: 1900<br>FINE: 410                    | ULTRA: 1500<br>SUPER: 900<br>TURBO: 700<br>HSP: 270    | ø1.13<br>ø0.044"                                                          | ø0.005<br>ø0.0002"<br>Opaque                            | FU-L54Z<br>Approx. 30 g<br>Aluminum |