



## DS2 - TERÜLETI FÉNYFÜGGÖNY ÉRZÉKELŐ DIGITÁLIS ÉS ANALÓG KIMENETTEL

Digitális és analóg kimenettel

DS2-05-07-120-JE  
957501180 Fényrácsmátrix, m = 1200 mm,  
Ethernet/analóg/1PNP

- Mérési magasság: 150-2500 mm
- Felbontás 12mm-ig
- Adó és vevő között akár 10m távolság
- Programozott PC-n vagy DIP-switchen keresztül



### TERMÉKLEÍRÁS

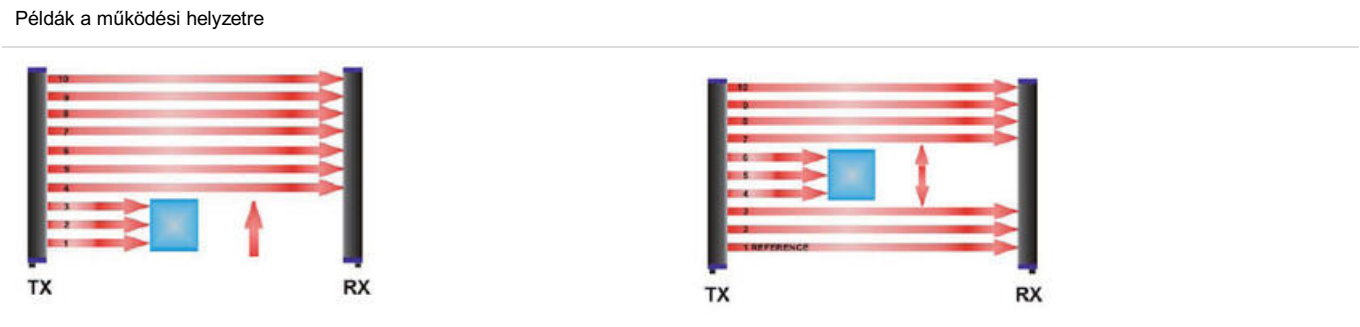
A DS2 fényfüggönyök alkalmasak az automatikus anyagmozgatásban való használatra. PNP kimenetet és analóg 0–10 V kimenetet is tartalmaznak. Léteznek RS485 porttal vagy Ethernettel felszerelt modellek is. Beállításuk vagy a rajtuk található DIP-kapcsolóval, vagy PC-re telepített szoftverrel végezhető.

Reakcióidő – soros változat

|                  |                        | Reakcióidő – soros változat |                                                                                     |                        |                        |                        |                        |                        |           |
|------------------|------------------------|-----------------------------|-------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------|
|                  |                        | Tmin (ms)                   |  |                        |                        |                        |                        |                        | Tmax (ms) |
|                  |                        | T2                          | T3                                                                                  | T4                     | T5                     | T6                     | T7                     |                        |           |
| Rendelési szám   | Konfiguráció           |                             |                                                                                     |                        |                        |                        |                        |                        |           |
|                  | Legfelső<br>fényszugár | Legfelső<br>fényszugár      | Legfelső<br>fényszugár                                                              | Legfelső<br>fényszugár | Teljes<br>sugárállapot | Teljes<br>sugárállapot | Teljes<br>sugárállapot | Teljes<br>sugárállapot |           |
|                  | 57 600 baud            | 9600 baud                   | 57 600 baud                                                                         | 9600 baud              | 57 600 baud            | 9600 baud              | 57 600 baud            | 9600 baud              |           |
|                  |                        | Bináris                     | Bináris                                                                             | ASCII                  | ASCII                  | Bináris                | Bináris                | ASCII                  | ASCII     |
| DS2-05-07-015-JV | 5,5                    | 12,5                        | 5,05                                                                                | 13                     | 5,5                    | 15                     | 6,5                    | 10                     |           |
| DS2-05-07-030-JV | 7                      | 14                          | 7                                                                                   | 14,5                   | 7                      | 18                     | 8,5                    | 21                     |           |
| DS2-05-07-045-JV | 8,5                    | 15,5                        | 8,5                                                                                 | 16                     | 8,5                    | 21                     | 10                     | 24                     |           |
| DS2-05-07-060-JV | 10                     | 17                          | 10                                                                                  | 18                     | 10                     | 26                     | 12                     | 38                     |           |
| DS2-05-07-075-JV | 11,5                   | 18,5                        | 11,5                                                                                | 19                     | 11,5                   | 31                     | 15                     | 44                     |           |
| DS2-05-07-090-JV | 13                     | 20                          | 13                                                                                  | 20                     | 13                     | 36                     | 17                     | 54                     |           |
| DS2-05-07-105-JV | 14,5                   | 21,5                        | 14,5                                                                                | 22                     | 14,5                   | 40                     | 19                     | 62                     |           |
| DS2-05-07-120-JV | 17                     | 24                          | 17                                                                                  | 24                     | 17                     | 44                     | 21                     | 70                     |           |
| DS2-05-07-135-JV | 18,5                   | 25                          | 19                                                                                  | 26                     | 19                     | 48                     | 23                     | 80                     |           |

|                  |     |      |     |      |     |      |     |      |
|------------------|-----|------|-----|------|-----|------|-----|------|
| DS2-05-07-150-JV | 20  | 26,5 | 21  | 28   | 21  | 53   | 25  | 84   |
| DS2-05-07-165-JV | 22  | 28   | 23  | 30   | 23  | 56   | 28  | 91   |
| DS2-05-25-045-JV | 5   | 11   | 5   | 11   | 5   | 13   | 6   | 18   |
| DS2-05-25-060-JV | 5,5 | 12   | 5,5 | 12,5 | 5,5 | 14,5 | 6,5 | 19,5 |
| DS2-05-25-075-JV | 6   | 13   | 6   | 13,5 | 6   | 16   | 7   | 21   |
| DS2-05-25-090-JV | 6,5 | 13,5 | 6,5 | 14,5 | 6,5 | 17,5 | 7,5 | 22,5 |

| Reakcióidő – ETHERNET változat |                     |       |                     |       |
|--------------------------------|---------------------|-------|---------------------|-------|
| Rendelési szám                 | Konfigurálás        |       |                     |       |
|                                | Legfelső fényysugár |       | Teljes sugárállapot |       |
|                                | bináris             | ASCII | bináris             | ASCII |
| DS2-05-07-060-JE               | 10                  | 10    | 10                  | 12    |
| DS2-05-07-075-JE               | 11,5                | 11,5  | 11,5                | 15    |
| DS2-05-07-090-JE               | 13                  | 13    | 13                  | 17    |
| DS2-05-07-120-JE               | 17                  | 17    | 17                  | 21    |
| DS2-05-07-150-JE               | 20                  | 21    | 21                  | 25    |
| DS2-05-07-165-JE               | 22                  | 23    | 23                  | 28    |

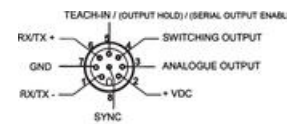
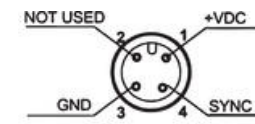
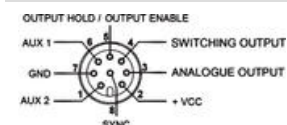
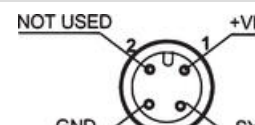
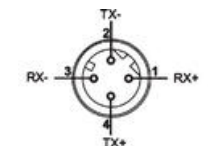


## MÉRETEK

| Model            | W x H (mm) | L (mm) | C (mm) | D (mm) |
|------------------|------------|--------|--------|--------|
| DS2-05-07-150-JE | 20 x 40    | 200    | 20,0   | 10,0   |
| DS2-05-07-165-JE | 22 x 40    | 220    | 22,0   | 11,0   |
| DS2-05-25-045-JE | 5 x 10     | 40     | 4,0    | 2,0    |
| DS2-05-25-060-JE | 5,5 x 10   | 45     | 4,5    | 2,2    |
| DS2-05-25-075-JE | 6 x 10     | 50     | 5,0    | 2,5    |
| DS2-05-25-090-JE | 6,5 x 10   | 55     | 5,5    | 2,7    |
| DS2-05-07-120-JE | 17 x 40    | 170    | 17,0   | 10,0   |
| DS2-05-07-150-JE | 20 x 40    | 200    | 20,0   | 10,0   |
| DS2-05-07-165-JE | 22 x 40    | 220    | 22,0   | 11,0   |
| DS2-05-25-045-JE | 5 x 10     | 40     | 4,0    | 2,0    |
| DS2-05-25-060-JE | 5,5 x 10   | 45     | 4,5    | 2,2    |
| DS2-05-25-075-JE | 6 x 10     | 50     | 5,0    | 2,5    |
| DS2-05-25-090-JE | 6,5 x 10   | 55     | 5,5    | 2,7    |

## BEKÖTÉS

|                     |                     |
|---------------------|---------------------|
| Soros változat – RX | Soros változat – TX |
|---------------------|---------------------|

|                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Main connector: M12 8-pole connector</p> <p>1 = white = RX/TX+<br/> 2 = brown = +VDC<br/> 3 = green = ANALOGUE OUT<br/> 4 = yellow = SWITCHING OUTPUT<br/> 5 = grey = TEACH-IN / (OUT HOLD) / (SERIAL OUTPUT ENABLE)<br/> 6 = pink = RX/TX-<br/> 7 = blue = GND<br/> 8 = red = SYNC</p>     |  <p>Main connector: M12 4-pole connector</p> <p>1 = brown = +VDC<br/> 2 = white = NOT USED<br/> 3 = blue = GND<br/> 4 = black = SYNC</p>                                |
| <p>Ethernet változat – RX</p>  <p>Main connector: M12 8-pole connector</p> <p>1 = white = AUX 2<br/> 2 = brown = +VDC<br/> 3 = green = ANALOGUE OUT<br/> 4 = yellow = SWITCHING OUTPUT<br/> 5 = grey = OUT HOLD / OUT ENABLE<br/> 6 = pink = AUX 1<br/> 7 = blue = GND<br/> 8 = red = SYNC</p> | <p>Ethernet változat – TX</p>  <p>Main connector: M12 4-pole connector</p> <p>1 = brown = +VDC<br/> 2 = white = NOT USED<br/> 3 = blue = GND<br/> 4 = black = SYNC</p> |
|  <p>Secondary connector: M12 4-pole connector</p> <p>1 = brown = RX+<br/> 2 = white = TX-<br/> 3 = blue = RX-<br/> 4 = black = TX+</p>                                                                                                                                                         |                                                                                                                                                                                                                                                          |

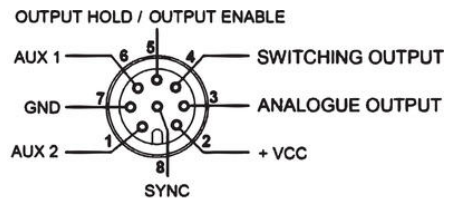
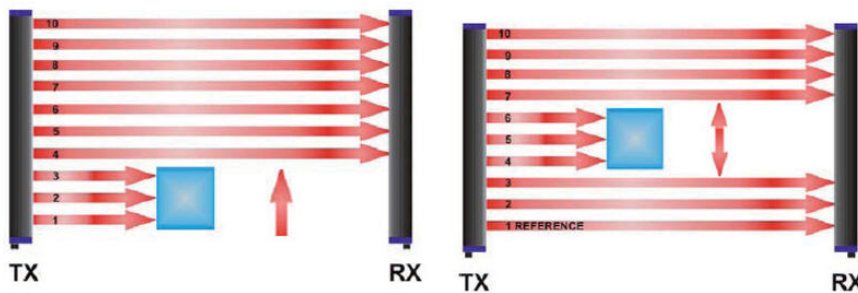
# ADATLAP

|         |                          |
|---------|--------------------------|
| Adatlap | <a href="#">Letöltés</a> |
|---------|--------------------------|

# MŰSZAKI ADATOK

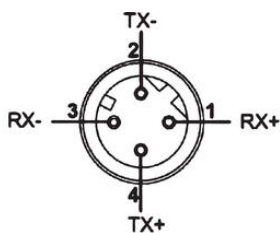
|                           |                                                    |
|---------------------------|----------------------------------------------------|
| Abszolút mérési pontosság | 6 mm                                               |
| Dimension (mm)            | 35 x 40 x 1285                                     |
| Elektromos csatlakozás    | M12, 8 pólusú csatlakozó, M12, 4 pólusú csatlakozó |
| Érzékelési magasság       | 1176 mm                                            |
| Fotocellás technológia    | Fényfüggőny-fotocella                              |
| IP-osztály                | IP65                                               |
| Jóváhagyások              | CE, cULus                                          |
| Kilépés                   | 0-10 V, EtherNet/IP, PNP                           |
| LED-kijelzés              | Igen                                               |
| Lencse anyaga             | PMMA                                               |

|                           |           |
|---------------------------|-----------|
| Light type                | IR LED    |
| Max. felvett teljesítmény | 0,25 A    |
| Max. kimeneti áram        | 0,1 A     |
| Max. tárolási hőmérséklet | 70 °C     |
| Max. távolság             | 5000 mm   |
| Max. üzemi hőmérséklet    | 50 °C     |
| Min. tárolási hőmérséklet | -25 °C    |
| Min. távolság             | 300 mm    |
| Min. üzemi hőmérséklet    | 0 °C      |
| Reakcióidő                | 5 ms      |
| Relatív mérési pontosság  | ± 6 mm    |
| Tápfeszültség             | 24 V DC   |
| Test anyaga               | Alumínium |



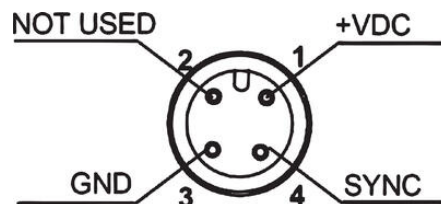
Main connector: M12 8-pole connector

|   |          |                         |
|---|----------|-------------------------|
| 1 | = white  | = AUX 2                 |
| 2 | = brown  | = +VDC                  |
| 3 | = green  | = ANALOGUE OUT          |
| 4 | = yellow | = SWITCHING OUTPUT      |
| 5 | = grey   | = OUT HOLD / OUT ENABLE |
| 6 | = pink   | = AUX 1                 |
| 7 | = blue   | = GND                   |
| 8 | = red    | = SYNC                  |



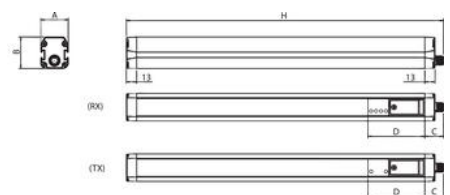
Secondary connector: M12 4-pole connector

|   |         |        |
|---|---------|--------|
| 1 | = brown | = RX + |
| 2 | = white | = TX - |
| 3 | = blue  | = RX - |
| 4 | = black | = TX + |



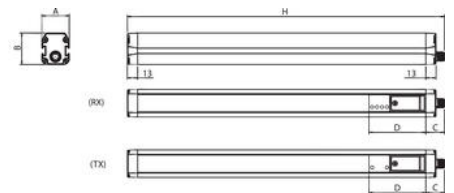
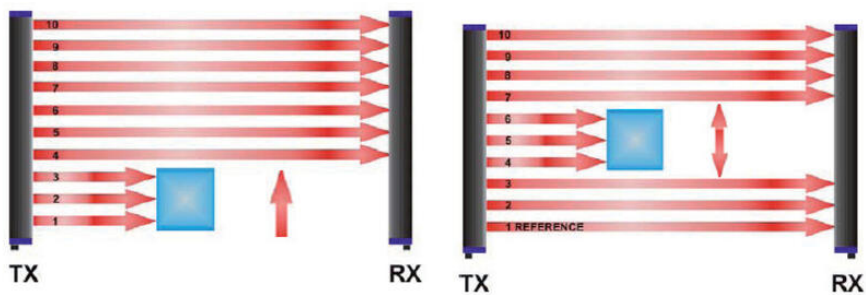
Main connector: M12 4-pole connector

|   |         |            |
|---|---------|------------|
| 1 | = brown | = +VDC     |
| 2 | = white | = NOT USED |
| 3 | = blue  | = GND      |
| 4 | = black | = SYNC     |



| MODEL            | A x B (mm) | h (mm) | C (mm) | D (mm) |
|------------------|------------|--------|--------|--------|
| DS2-05-07-015-XX | 35 x 40    | 256    | 23.8   | 72.5   |
| DS2-05-07-030-XX | 35 x 40    | 403    | 23.8   | 72.5   |
| DS2-05-07-045-XX | 35 x 40    | 550    | 23.8   | 72.5   |
| DS2-05-07-060-XX | 35 x 40    | 697    | 23.8   | 72.5   |
| DS2-05-07-075-XX | 35 x 40    | 844    | 23.8   | 72.5   |
| DS2-05-07-090-XX | 35 x 40    | 991    | 23.8   | 72.5   |
| DS2-05-07-105-XX | 35 x 40    | 1138   | 23.8   | 72.5   |
| DS2-05-07-120-XX | 35 x 40    | 1285   | 23.8   | 72.5   |
| DS2-05-07-135-XX | 35 x 40    | 1432   | 23.8   | 72.5   |
| DS2-05-07-150-XX | 35 x 40    | 1579   | 23.8   | 72.5   |
| DS2-05-07-165-XX | 35 x 40    | 1726   | 23.8   | 72.5   |
| DS2-05-25-045-XX | 35 x 40    | 562    | 23.8   | 72.5   |
| DS2-05-25-060-XX | 35 x 40    | 713    | 23.8   | 72.5   |
| DS2-05-25-075-XX | 35 x 40    | 864    | 23.8   | 72.5   |
| DS2-05-25-090-XX | 35 x 40    | 1015   | 23.8   | 72.5   |

XX: JV for serial models or JE for Eth ERNET models



| MODEL            | A x B (mm) | h (mm) | C (mm) | D (mm) |
|------------------|------------|--------|--------|--------|
| DS2-05-07-015-XX | 35 x 40    | 256    | 23.8   | 72.5   |
| DS2-05-07-030-XX | 35 x 40    | 403    | 23.8   | 72.5   |
| DS2-05-07-045-XX | 35 x 40    | 550    | 23.8   | 72.5   |
| DS2-05-07-060-XX | 35 x 40    | 697    | 23.8   | 72.5   |
| DS2-05-07-075-XX | 35 x 40    | 844    | 23.8   | 72.5   |
| DS2-05-07-090-XX | 35 x 40    | 991    | 23.8   | 72.5   |
| DS2-05-07-105-XX | 35 x 40    | 1138   | 23.8   | 72.5   |
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| DS2-05-07-150-XX | 35 x 40    | 1579   | 23.8   | 72.5   |
| DS2-05-07-165-XX | 35 x 40    | 1726   | 23.8   | 72.5   |
| DS2-05-25-045-XX | 35 x 40    | 562    | 23.8   | 72.5   |
| DS2-05-25-060-XX | 35 x 40    | 713    | 23.8   | 72.5   |
| DS2-05-25-075-XX | 35 x 40    | 864    | 23.8   | 72.5   |
| DS2-05-25-090-XX | 35 x 40    | 1015   | 23.8   | 72.5   |

XX: JV for serial models or JE for Eth ERNEt models