GridScan/Mini

Technical data

Optical
Max. operating range 1 ... 10 m
Number of elements 4 ... 50
Max. ambient light 100,000 Lux
Aperture angle at 3 m Tx: ≤ ±10° and Rx: ≤ ±20°

Mechanical
Cross-section 12 mm × 16 mm
Max. protection height 2,500 mm
Housing material Natural anodized aluminum
Enclosure rating IP67
Temperature range −40 °C ... +60 °C

Electrical
Supply voltage USP 10 ... 30 VDC
Current consumption at 24 VDC 100 mA
Output PNP/NPN (push-pull) or FSS
Output load 100 mA, 100 nF
Typ. response time with 32 elements 90 ms
Max. door speed 2.5 m/s
Status LED Rx: Object detected red
No object detected green
Power LED Tx: Power ok green

General
EMC emission EN 61000-6-3:2007
EN 12016:2004
EMC immunity EN 61000-6-2:2005
EN 12015:2004
Vibration IEC 60068-2-6:2007
RoHS 2011/65/EU
Certificates CE, CSA, TÜV
Safety category EN ISO 13849-1:2008, Cat. 2, PL D
(excl. IEC 61496-2:2006)
EN 61508:2011, SIL 2
EN 12978:2009 (SB type)
Applicable standards UL 325:2012

Types
GridScan/Mini SB  With door blanking feature according to EN 12978:2009
GridScan/Mini DB  With door blanking feature
GridScan/Mini ST  For static applications without door blanking function

Connection cable and electrical connection
Synchronization cable
Length 10 m
Diameter Ø 3.5 mm
Material PVC, black
Plug color Black
Wires AWG26
• brown USP
• blue GND (0 V)
• black Communication
• white Test signal
Connection cable
Length 5 m
Diameter Ø 3.5 mm
Material PVC, black
Plug color Blue
Wires AWG26
• brown USP
• blue GND (0 V)
• black Output
• white Test input
• gray LO/DO selector
• green Not used

Features
- Criss-cross beams
- Safety Cat. 2 without testing FSS output
- Direct integration into the door edge (SB and DB type)
- TÜV approved
- Door speeds up to 2.5 m/s
- Waterproof housing (IP 67) and very high light reserve make GridScan/Mini insensitive to dust, dirt and water
- Electrical synchronization for increased light and strobe immunity
- Short-circuit proof semiconductor output PNP/NPN (push-pull)
- Cross section only 12 mm × 16 mm, side and front mounting possible
- Integrated door blow-out or door closed signal available

CEDES AG reserves the right to modify or change technical data without prior notice.
High-speed and sectional doors (with door blanking)

Sectional doors (static mounting, without door blanking)