

cegard/Smart NT - Light Curtain

Technical Data

Features

- ▶ One light curtain with 3 integrated output types:
 1. Push-pull output to connect to conventional elevator controllers
 2. RS485 interface for CEDES Elevate cloud integration for
 - precise door position and door vibration information and
 - optimized elevator door & car diagnostics or
 - people counting and object recognition capabilities
 3. FSSL output for CEDES CabSafe applications
- ▶ Easy installation
- ▶ Ideal for dynamic installations
- ▶ Meets all requirements under EN 81-20:2020



OPTICAL

Operating range	0.01 ... 4 m (0.033 ... 13.1 ft)
Protection height	1'823 mm (5.98 ft)
No. optical elements	41
No. of beams	121
Wave length	Infrared 850 nm

MECHANICAL

Dimensions (w x h x l)	11.5 x 16 x 2'000 mm (0.45 x 0.63 x 78.74 in.)
Edge housing material	Black powder coated aluminum

ENVIRONMENTAL

Enclosure rating:	Edges Connectors	IP65 IP65
Temperature range (operation)	-30°C ... 60° C (-22°F ... 140°F)	
Max. ambient light	100'000 Lux	

ELECTRICAL

Supply voltage USP	10 ... 30 VDC
Typ. current consumption at 24 VDC	< 60 mA (without load)
Max inrush current per edge	< 5 A (< 200 µs)
Outputs	Push-Pull RS485 FSSL (*)
Push-pull output logic	NO & NC
Output voltage	0.9 x USP
Max. output load (Push-Pull)	100 mA, 100 nF
Typical response time	< 110 ms
Termination of RS485	120 Ω (internally)
Baud rate	230,400 bit per second
Output frequency FSSL	2 kHz / 1 kHz
Indicator LED 1 Tx	Red ON – Power
Indicator LED 1 Rx	Red ON –Power
Indicator LED 2 Rx	Red OFF – No object
Indicator LED 2 Rx	Red ON – Object detected

(* FSSL = Frequency safety signal)

CONNECTION CABLE & ELECTRICAL CONNECTION

	Tx Transmitter	Rx Receiver
Connection cable		
Length	5 m (16.4 ft.)	
Cable material	PVC, black	
Cable diameter	Ø4.2mm (Ø0.165 in.)	
Connector	M8, Ø10 mm (Ø0.394 in.)	
Connector Color/pins	White, 6-pin	Blue, 6-pin
Wires	AWG26	
Brown	USP	
Blue	GND	
Black	Selector	OUT
White	Sync	
Green	RS485 1 A	
Gray	RS485 1 B	

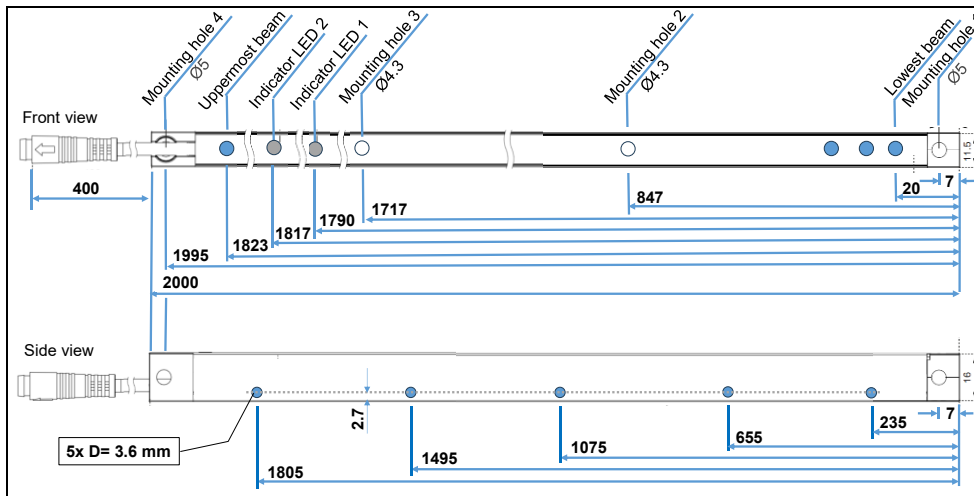
GENERAL

EMC emission	EN 12015:2021	
EMC immunity	EN 12016:2013 ISO 22200:2009	
Vibration	IEC 60068-2-6:2007	
Shock	IEC 60068-2-27:2008	
Cable durability	IEC 60227-2:2003	
RoHS	2011/65/EU	
Certificates	cCSAus CE	CSA B44.1:19 / ASME A17.5-2019 EN 81-20:2020

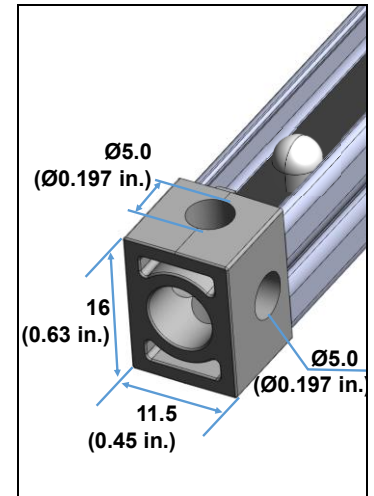


CEDES AG is certified according to ISO 9001: 2015

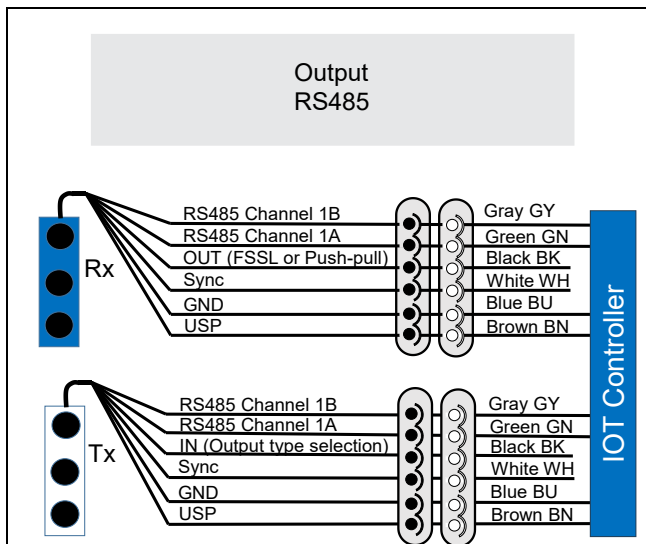
Dimensions



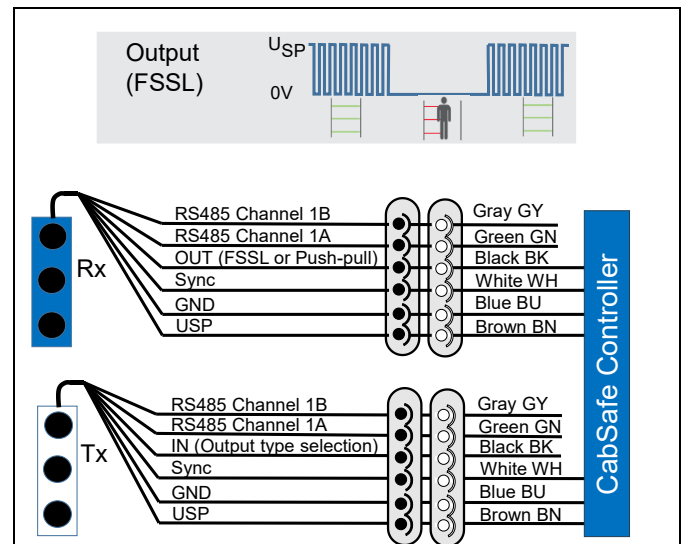
Detailed View



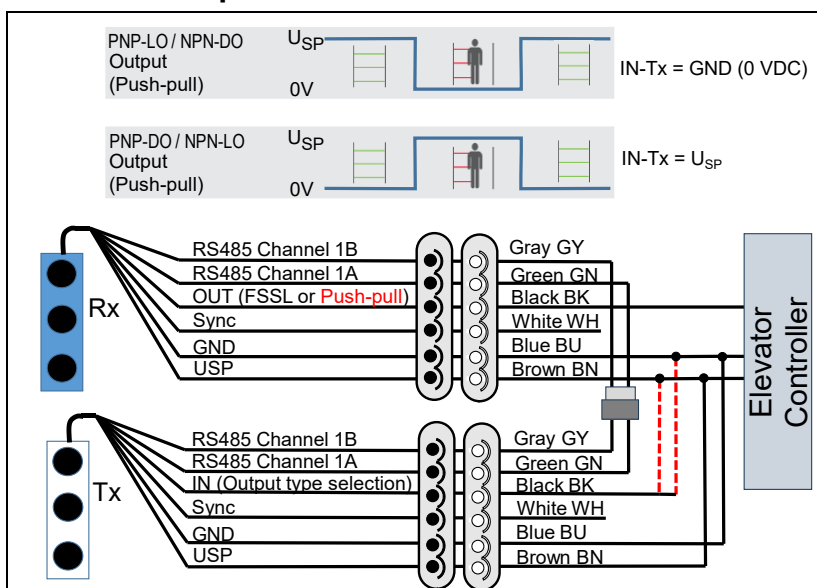
IoT Output



FSSL Output



Push-Pull Output



Typical Application

