

CE  US UK
LISTED CA

Technical drawing of the M12-5000 cable assembly, showing front, side, and detail views with dimensions in mm.

Front View (Top): Shows the cable connector with a length of 34.35 mm. The connector body has a width of 18 mm. The cable diameter is 8 mm. The connector has a diamond-shaped marking on the front.

Side View (Middle): Shows the cable assembly with a total length of 62 mm. The cable diameter is 8 mm. The connector body has a width of 35 mm. The cable length is 50 mm. The connector body has a diameter of 6 mm. The cable has a length of 25 mm. The connector body has a diameter of 6 mm. The cable has a length of 25 mm. The connector body has a diameter of 6 mm. The cable has a length of 25 mm.

Detail View (Bottom): Shows the cable connector with a length of 34.35 mm. The connector body has a width of 18 mm. The cable diameter is 8 mm. The connector has a diamond-shaped marking on the front.

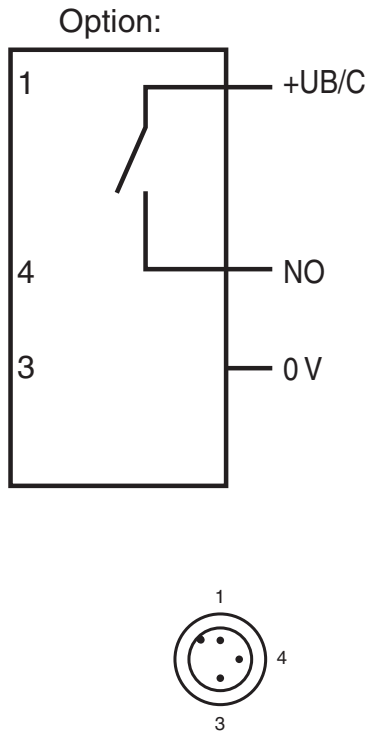
General specifications

—

Technical Data

Effective detection range		0 ... 9000 mm
Reflector distance		20 ... 9000 mm
Threshold detection range		12 m
Reference target		reflector C110-2
Light source		LED
Light type		modulated visible red light , 630 nm
Polarization filter		yes
Diameter of the light spot		approx. 200 mm at a distance of 6 m
Opening angle		3 °
Ambient light limit		50000 Lux
Functional safety related parameters		
MTTF _d		790 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED green: power on
Function indicator		LED yellow: 1. LED lit constantly: signal > 2 x switching point (function reserve) 2. LED flashes: signal between 1 x switching point and 2 x switching point 3. LED off: signal < switching point
Electrical specifications		
Operating voltage	U _B	12 ... 30 V DC
No-load supply current	I ₀	≤ 40 mA
Power consumption	P ₀	≤ 1 W
Output		
Switching type		light-on
Signal output		relay, 1 NO
Switching voltage		max. 30 V DC
Switching current		max. 3 A
Switching power		DC: max. 90 W
Switching frequency	f	20 Hz
Response time		≤ 25 ms
Conformity		
Product standard		IEC / EN 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, Class 2 Power Source, Type 1 enclosure
Ambient conditions		
Ambient temperature		-25 ... 55 °C (-13 ... 131 °F)
Storage temperature		-40 ... 70 °C (-40 ... 158 °F)
Mechanical specifications		
Housing width		18 mm
Housing height		62 mm
Housing depth		35 mm
Degree of protection		IP67
Connection		Single-ended male cordset, right-angled, M12, 3-pin
Material		
Housing		Polycarbonate
Optical face		PMMA
Cable		
Length	L	3 m
Mass		225 g

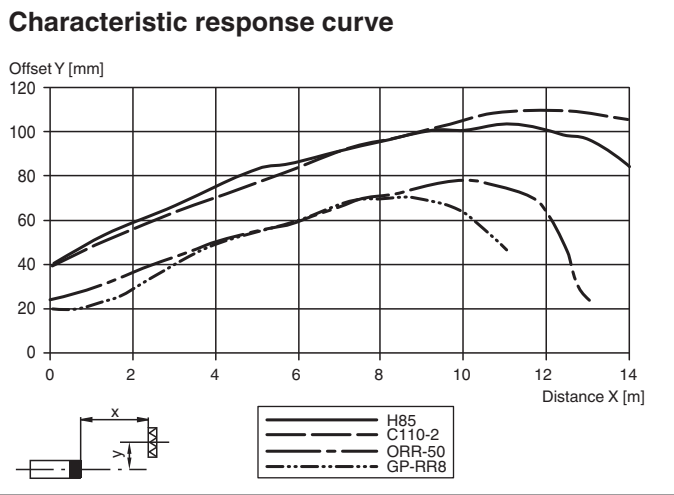
Connection



Wire colors in accordance with EN 60947-5-2

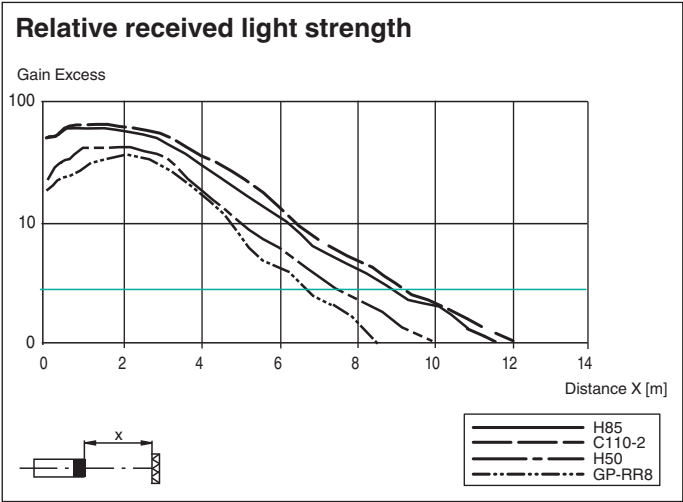
1	BN	(brown)
3	BU	(blue)
4	BK	(black)

Characteristic Curve




Release date: 2023-04-05 Date of issue: 2023-04-05 Filename: 70137282_eng.pdf

Characteristic Curve



Accessories

	REF-C110-2	Reflector, round ø 84 mm, central mounting hole
---	-------------------	---