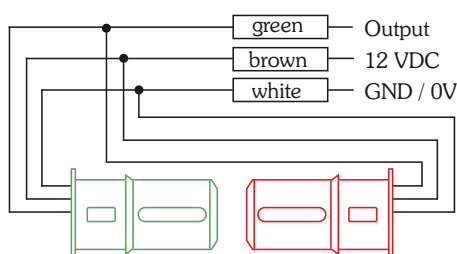
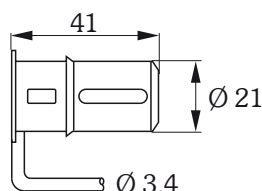
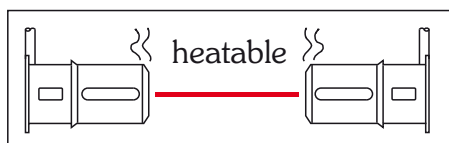


Optoelectronic safety edges



OS 21 H-IR (heatable, infrared)

- heatable aperture
- compatible interface
- state-of-the-art microprocessor technology
- compensation for environmental factors
- low actuation forces
- continuous dynamic level control
- easy assembling
- high degree of protection for sensors, fully encapsulated

Technical data

Range	1...7m
Operating voltage	12 VDC +/- 10%
Current consumption	max. 50mA
Type of light	infrared, 880nm, pulsed
Aperture	16° total angle
Operating temperature	-30°C...+75°C
Casing material	PA6 plastic
Connection cable	PUR-Material, LiYY11Y halogen-free, acid and oil-resistant 3 x 0.14mm ² , Ø 3.4mm
Degree of Protection	IP 67 according to EN60529, fully encapsulated
Output	Pulsed push-pull, max. 10mA loading, short-circuit proof
Levels	low-level 0...1V high-level 3...5V
Signal frequency	typically 800Hz (0.5kHz...1kHz)
Output delay	approx. 5ms

Ordering details

Transmitter:		cable lengths
OS 21TH/6m/IR	1.113 649-060	6 meter
OS 21TH/10m/IR	1.113 649-100	10 meter
OS 21TH/15m/IR	1.113 649-150	15 meter
Receiver:		
OS 21RH/1m	1.113 658-010	1 meter
OS 21RH/6m	1.113 658-060	6 meter
OS 21RH/10m	1.113 658-100	10 meter

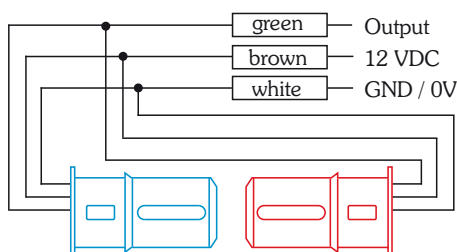
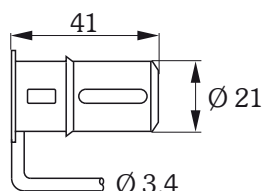
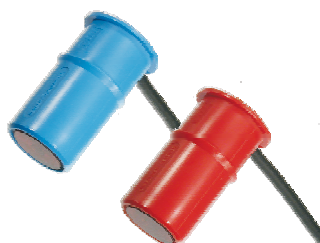
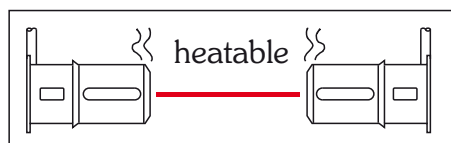
*further cable lengths available on request

Declaration of conformity

EMC directive 2004/108/EEC
EN 61000-6-2 and EN 61000-6-4
Safety devices for power operated
doors and gates
EN 12978



Optoelectronic safety edges



OS 21 H-IR (heatable, visible red light)

- heatable aperture
- compatible interface
- state-of-the-art microprocessor technology
- compensation for environmental factors
- low actuation forces
- continuous dynamic level control
- easy assembling
- high degree of protection for sensors, fully encapsulated

Technical data

Range	1...7m
Operating voltage	12 VDC +/- 10%
Current consumption	max. 50mA
Type of light	visible red light, 670nm, pulsed
Aperture	16° total angle
Operating temperature	-30°C...+75°C
Casing material	PA6 plastic
Connection cable	PUR-Material, LiYY11Y halogen-free, acid and oil-resistant 3 x 0.14mm ² , Ø 3.4mm
Degree of Protection	IP 68, filled with epoxy resin
Output	Pulsed push-pull, max. 10mA loading, short-circuit proof
Levels	low-level 0...1V high-level 3...5V
Signal frequency	typically 800Hz (0.5kHz...1kHz)
Output delay	approx. 5ms

Ordering details

Transmitter:	order number	cable lengths
OS 21TH/6m/RT	1.113 648-060	6 meter
OS 21TH/10m/RT	1.113 648-100	10 meter
OS 21TH/15mIR	1.113 648-150	15 meterT
Receiver:		
OS 21RH/1m	1.113 658-010	1 meter
OS 21RH/6m	1.113 658-060	6 meter
OS 21RH/10m	1.113 658-100	10 meter

*further cable lengths available on request

Declaration of conformity

EMC directive 2004/108/EEC
EN 61000-6-2 and EN 61000-6-4
Safety devices for power operated
doors and gates
EN 12978

