

► Selection guide – PSENOpt slim

Hand protection: Type 2 – light curtain PSEN op2H-SL

Common features

- Compliant and approved in accordance with:
 - EN/IEC 61508
 - EN/IEC 61496-1/-2: Type 2
- For use in applications up to:
 - PL c of EN ISO 13849-1
 - SIL CL 1 of EN/IEC 62061
- Function selection:
 - Manual/automatic restart
 - Feedback loop monitoring (EDM)
 - Cascading
- No dead zones
- Supply voltage: 24 VDC
- Connection:
 - Receiver: 1 x pigtail, M12, 5-pin
 - Transmitter: 1 x pigtail, M12, 5-pin
- Dimensions: 15.4 x 32.6 mm
- For response times see data sheet



PSEN op2H-SL-24-...

Type	Resolution
PSEN op2H-SL-24-015/1	24 mm
PSEN op2H-SL-24-030/1	24 mm
PSEN op2H-SL-24-045/1	24 mm
PSEN op2H-SL-24-060/1	24 mm
PSEN op2H-SL-24-075/1	24 mm
PSEN op2H-SL-24-090/1	24 mm
PSEN op2H-SL-24-105/1	24 mm
PSEN op2H-SL-24-120/1	24 mm

Hand protection: Type 4 – light curtain PSEN op4H-SL

Common features

- Compliant and approved in accordance with:
 - EN/IEC 61508
 - EN/IEC 61496-1/-2: Type 4
- For use in applications up to:
 - PL e of EN ISO 13849-1
 - SIL CL 3 of EN/IEC 62061
- Function selection:
 - Manual/automatic restart
 - Feedback loop monitoring (EDM)
 - Cascading
- No dead zones
- Supply voltage: 24 VDC
- Connection:
 - Receiver: 1 x pigtail, M12, 5-pin
 - Transmitter: 1 x pigtail, M12, 5-pin
- Dimensions: 15.4 x 32.6 mm
- For response times see data sheet



PSEN op4H-SL-24-...

Type	Resolution
PSEN op4H-SL-24-015/1	24 mm
PSEN op4H-SL-24-030/1	24 mm
PSEN op4H-SL-24-045/1	24 mm
PSEN op4H-SL-24-060/1	24 mm
PSEN op4H-SL-24-075/1	24 mm
PSEN op4H-SL-24-090/1	24 mm
PSEN op4H-SL-24-105/1	24 mm
PSEN op4H-SL-24-120/1	24 mm

Height of protected field	Range	Certification	Order number ¹⁾
150 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 100
300 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 101
450 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 102
600 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 103
750 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 104
900 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 105
1 050 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 106
1 200 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 107

¹⁾ Order number for transmitter, receiver and mounting bracket respectively (one unit)

²⁾ UL certification applies only to individual components contained within the set



Height of protected field	Range	Certification	Order number ¹⁾
150 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 120
300 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 121
450 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 122
600 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 123
750 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 124
900 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 125
1 050 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 126
1 200 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 127

¹⁾ Order number for transmitter, receiver and mounting bracket respectively (one unit)

²⁾ UL certification applies only to individual components contained within the set

Accessories:

 From page 92

Cable selection:

 From page 138

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on light curtains
PSENopt slim:

 Webcode:
web150423

Online information
at www.pilz.com

► Selection guide – PSENopt slim, PSENopt single-

Finger protection: Type 4 – light curtain PSEN op4F-SL

Common features

- Compliant and approved in accordance with:
 - EN/IEC 61508
 - EN/IEC 61496-1/-2: Type 4
- For use in applications up to:
 - PL e of EN ISO 13849-1
 - SIL CL 3 of EN/IEC 62061
- Function selection:
 - Manual/automatic restart
 - Feedback loop monitoring (EDM)
 - Cascading
- No dead zones
- Supply voltage: 24 VDC
- Connection:
 - Receiver: 1 x pigtail, M12, 5-pin
 - Transmitter: 1 x pigtail, M12, 5-pin
- Dimensions: 15.4 x 32.6 mm
- For response times see data sheet



Type	Resolution
PSEN op4F-SL-14-015/1	14 mm
PSEN op4F-SL-14-021/1	14 mm
PSEN op4F-SL-14-030/1	14 mm
PSEN op4F-SL-14-036/1	14 mm
PSEN op4F-SL-14-042/1	14 mm
PSEN op4F-SL-14-045/1	14 mm
PSEN op4F-SL-14-048/1	14 mm
PSEN op4F-SL-14-054/1	14 mm
PSEN op4F-SL-14-060/1	14 mm
PSEN op4F-SL-14-066/1	14 mm
PSEN op4F-SL-14-072/1	14 mm
PSEN op4F-SL-14-075/1	14 mm
PSEN op4F-SL-14-078/1	14 mm
PSEN op4F-SL-14-084/1	14 mm
PSEN op4F-SL-14-090/1	14 mm
PSEN op4F-SL-14-096/1	14 mm
PSEN op4F-SL-14-102/1	14 mm
PSEN op4F-SL-14-105/1	14 mm
PSEN op4F-SL-14-108/1	14 mm
PSEN op4F-SL-14-114/1	14 mm
PSEN op4F-SL-14-120/1	14 mm

Single-beam safety light barriers PSEN op2S/4S

Common features

- PL e/SIL CL 3 in conjunction with:
 - Safety relay PNOZ e7p
 - Configurable safe small controllers PNOZmulti 2: PNOZ m0p, PNOZ m1p, PNOZ m2p
 - Programmable control system PSS: PSS DI20 T
- Supply voltage: 20 ... 30 VDC
- Design: M18
- Connection: connector, M12, 4-pin
- For response times see data sheet



Type	Resolution/ No. of beams
PSEN op2S-1-1	Access guarding (1 beam)
PSEN op4S-1-1	Access guarding (1 beam)
PSEN op4S-1-2	Access guarding (1 beam)

beam safety light barriers

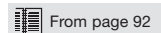
Height of protected field	Range	Certification	Order number ¹⁾
150 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 140
210 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 141
300 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 142
360 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 143
420 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 144
450 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 145
480 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 146
540 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 147
600 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 148
660 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 149
720 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 150
750 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 151
780 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 152
840 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 153
900 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 154
960 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 155
1 020 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 156
1 050 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 157
1 080 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 158
1 140 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 159
1 200 mm	0.2 ... 6 m	TÜV, UL ²⁾	631 160

¹⁾ Order number for transmitter, receiver and mounting bracket respectively (one unit)

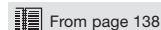
²⁾ UL certification applies only to individual components contained within the set



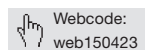
Accessories:



Cable selection:



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Approved in accordance with EN/IEC 61496-1/-2	Features	Range	Certification	Order number ¹⁾
Type 2	Infrared	0 ... 8 m	EAC, TÜV, UL ²⁾	630 380
Type 4	Infrared	0 ... 8 m	EAC, TÜV, UL ²⁾	630 381
Type 4	Laser	0 ... 40 m	EAC, TÜV, UL ²⁾	630 382

¹⁾ Order number for transmitter, receiver and mounting bracket respectively (one unit)

²⁾ UL certification applies only to individual components contained within the set

► Selection guide – Accessories PSENOpt

Accessories PSENOpt II – Hand and finger protection



PSEN opII
Adv Bracket Kit-3

Type	Features	Quantity	Order number
PSEN opII Laserpointer	► Laser pointer ► Certification: CE	1	632 014
PSEN opII Bracket Kit	Flexible bracket	2	632 015
PSEN opII Adv Bracket Kit-2	Dead-zone-free attachment with degrees of freedom in 3 axes, 4 mounting plates	4	632 016
PSEN opII Adv Bracket Kit-3	Dead-zone-free attachment with degrees of freedom in 3 axes, 6 mounting plates	6	632 017
PSEN opII Testpiece F 14 mm	Test rod for finger resolution	1	632 018
PSEN opII Testpiece H 30 mm	Test rod for hand resolution	1	632 019

Accessories PSENOpt, PSENOpt II – Mirror columns



PSEN opII mirror
column-060



PSEN opII adjustable
base unit

Type	Features	Protection field height to max.	Order number
PSEN opII mirror column-060	► Mirror column for protection against shock, collision and vibration ► Mirror column consisting of a post protector and an integrated mirror ► Can be used with light curtains PSENOpt and PSENOpt II ► Optional accessories: PSENOpt II adjustable base unit	60 mm	632 032
PSEN opII mirror column-090		90 mm	632 033
PSEN opII mirror column-120		120 mm	632 034
PSEN opII mirror column-165		165 mm	632 035
PSEN opII mirror column-195		195 mm	632 036
PSEN opII adjustable base unit		-	632 037

Accessories PSENopt Advanced – hand and finger protection

PSEN op Advanced
Programming Adapter

Description Type	Features	Quantity	Order number
Mounting bracket PSEN op cascading bracket	► Corner fixture for 2 light curtains	1	631 061
Adapter PSEN op Advanced Programming Adapter	► Programming adapter for PSENopt Configurator ¹⁾ , use with PSEN op Ethernet cable (see page 160)	1	631 070

¹⁾ To use the software, the adapter must be ordered.

Accessories PSENopt slim – hand and finger protection



PSEN op SL Bracket O

Type	Features	Quantity	Order number
PSEN op SL Bracket C	Fastening kit PSENopt slim C-shape	1	631 180
PSEN op SL Bracket L	Fastening kit PSENopt slim L-shape	1	631 181
PSEN op SL Bracket O	Fastening kit PSENopt slim O-shape	1	631 182
PSEN op SL Testpiece F 24 mm	Test rod, diameter 24 mm	1	631 186

Accessories PSENopt (1st generation) – single-beam safety light device

Description Type	Features	Quantity	Order number
Deviating mirror PSEN 2S/4S mirror	Suitable for light barriers PSEN op2S/4S	1	630 711
Mounting bracket PSEN 2S/4S bracket	Suitable for light barriers PSEN op2S/4S	2	630 712