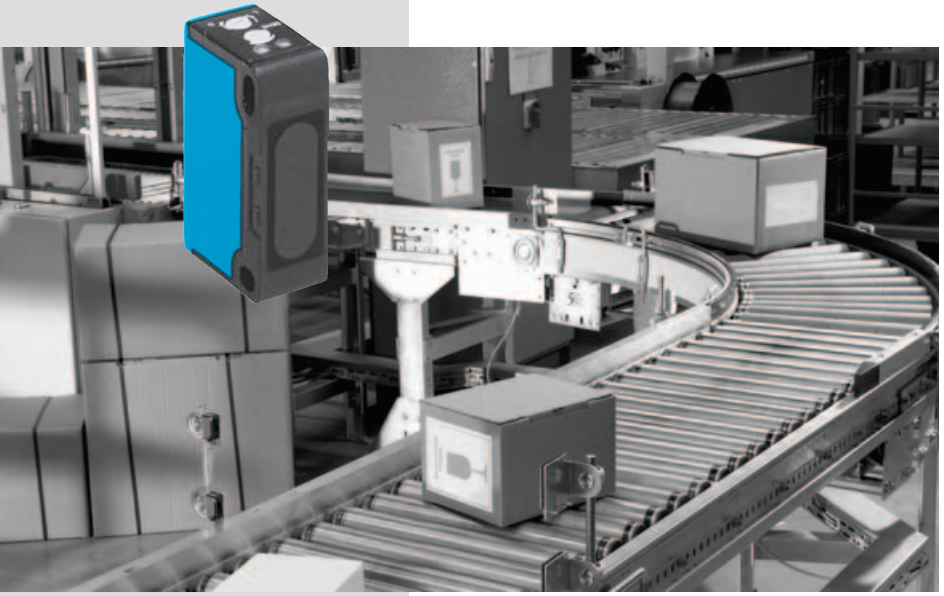
W140-2: Miniature Photoelectric Switch Series with Large Scanning Ranges

BGS Photoelectric proximity switch

Energ. Photoelectric proximity switch

Photoelectric reflex switch



Through-beam photoelectric switch

The W140-2 is a complete photoelectric switch series in miniature housing. It especially provides extensive scanning ranges for challenging requirements.
The W140-2 highlights:

- Through-beam photoelectric switch: Scanning range = 16 m. Accessories: Slotted masks, polarisation filter tip adapters
- Photoelectric reflex switch with polarisation filter: Scanning range = 6.5 m (PL80A)
- Energetic photoelectric proximity switch: Scanning distance = 1000 mm; for standard scanning jobs
- Photoelectric proximity switch with adjustable scanning distance and background suppression (BGS): Scanning distance = adjustable up to 500 mm.

The integrated W140-2 electronics has parameters comparable with the "big ones" and convenient W140-2 details simplify handling for mounting, operation startup and maintenance, for example:

- Sensitivity/scanning distance adjustment
- Operating reserve display
- Optional connection cable or M8 plug, 3 pin or 4 pin.

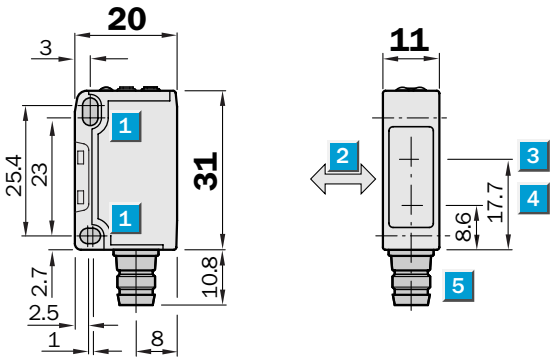
The M8 plug model especially provides an extremely simple solution for the island technologies being used increasingly these days. Distributor boxes for plug modules or bus systems: plug W140-2 and play. All this and more make the W140-2 very interesting for the branches storage and conveyor technology, electronic- and semiconductor industry, packaging machines, and mounting and handling technology.

Scanning distance
2 ... 500 mm

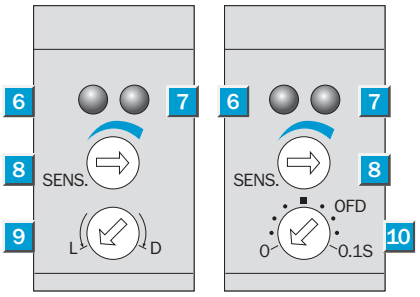
Photoelectric proximity switch

- With background suppression (BGS), consequently reliable detection of dark objects in front of a light background
- Scanning distance adjustable via potentiometer
- Red light as alignment aid
- Optionally with off delay t_{OFF} = 0 ... 100 ms

Dimensional drawing



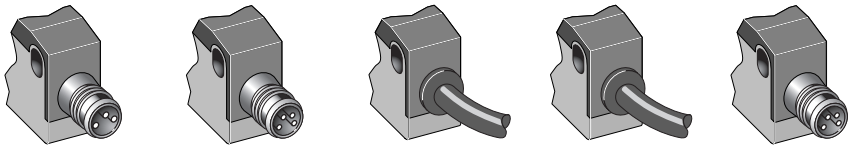
Adjustments possible	
WTB140-N132	WTB140-N122
WTB140-N330	WTB140-N420
WTB140-N430	WTB140-P122
WTB140-P132	WTB140-P420
WTB140-P330	
WTB140-P430	



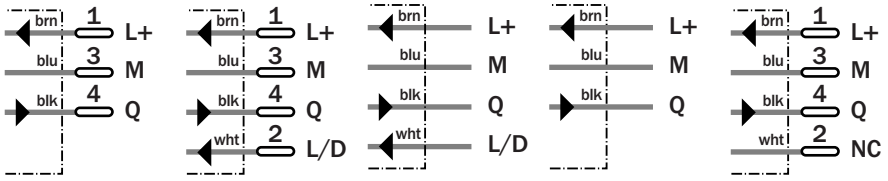
1 Mounting hole Ø 3.2 mm for M3
2 Standard direction of the material to be scanned
3 Optics center receiver
4 Optics center transmitter
5 Connector
6 Green LED indicator:light reception with operating reserve >1.1
7 Orange LED indicator: switching output active
8 Scanning distance control (5 turns)
9 Light/dark rotary switch:
L = light switching, D = dark switching
10 OFD, selector switch (270 °) off delay t_{OFF} ;
t = 0 ... 0.1 ms

Connection type

WTB140-N330	WTB140-N420	WTB140-N122	WTB140-N132	WTB140-N430
WTB140-P330	WTB140-P420	WTB140-P122	WTB140-P132	WTB140-P430



M8, 3-pin	M8, 4-pin	4 x 0.18 mm²	3 x 0.18 mm²	M8, 4-pin



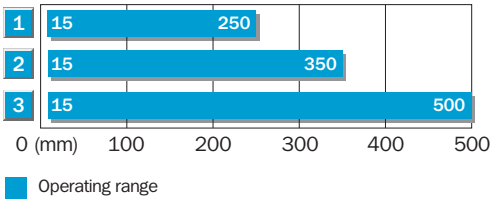
Accessories

Connector, M8, 3-pin
Connector, M8, 4-pin
Mounting systems

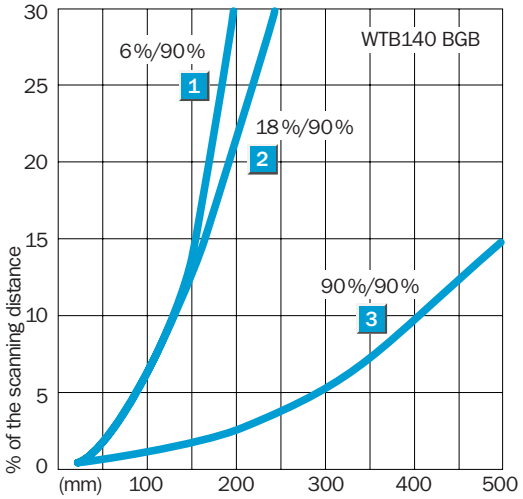
Technical specifications	WTB140-	N122	N132	N330	N420	N430	P122	P132	P330	P420	P430
Scanning distance typ. max.	2 ... 500 mm[1]	■	■	■	■	■	■	■	■	■	■
Operating distance	15 ... 500 mm[1]	■	■	■	■	■	■	■	■	■	■
Adjustment of operating distance	Potentiometer, 5 revolutions	■	■	■	■	■	■	■	■	■	■
Light source, light type	LED, Red light, 680 nm[2]	■	■	■	■	■	■	■	■	■	■
Light spot diameter	Approx. 15 mm at 200 mm distance	■	■	■	■	■	■	■	■	■	■
Angle of dispersion	Ca. 4.3 °	■	■	■	■	■	■	■	■	■	■
Supply voltage V_S	DC 10 ... 30 V[3]	■	■	■	■	■	■	■	■	■	■
Ripple	± 10 %[4]	■	■	■	■	■	■	■	■	■	■
Power consumption	≤ 30 mA[5]	■	■	■	■	■	■	■	■	■	■
Switching outputs	NPN: open collector: Q	■	■	■	■	■					
	PNP: open collector: Q						■	■	■	■	■
Switching mode	Light-/dark-switching via L/D control cable	■			■		■			■	
	Light-/dark-switching via rotary switch		■	■		■		■	■		■
Signal voltage PNP HIGH / LOW	V_S - 1.8 V / approx. 0 V						■	■	■	■	■
Signal voltage NPN HIGH / LOW	Approx. V_S / < 1.8 V	■	■	■	■	■					
Output current $I_a$max	100 mA	■	■	■	■	■	■	■	■	■	■
Response time	≤ 0.5 ms[6]	■	■	■	■	■	■	■	■	■	■
Switching frequency	1,000 Hz[7]	■	■	■	■	■	■	■	■	■	■
Time delay	Selectable: 0 ... 100 ms	■			■		■			■	
Time type	t_{OFF} (off delay)	■			■		■			■	
Connection type	Cable, PVC, 2 m[8]	■	■				■	■			
	Connector, M8, 3-pin			■					■		
	Connector, M8, 4-pin				■	■				■	■
VDE protection class	⧈[9]	■	■	■	■	■	■	■	■	■	■
Circuit protection	V_S connections reverse-polarity protected / In-/outputs short-circuit protected / Interference suppression / Outputs overcurrent and short-circuit protected	■	■	■	■	■	■	■	■	■	■
Enclosure rating	IP 67	■	■	■	■	■	■	■	■	■	■
Ambient temperature operation	-25 °C ... +55 °C	■	■	■	■	■	■	■	■	■	■
Ambient temperature storage	-40 °C ... +70 °C	■	■	■	■	■	■	■	■	■	■
Weight	Ca. 53 g	■	■				■	■			
	Ca. 9 g			■	■	■			■	■	■
Housing material	PBT, PC	■	■	■	■	■	■	■	■	■	■

[1] Object with 90% remission (based on standard white to DIN 5033). Scanning distance control set to MAX
[2] Average service life 100,000 h at T_a = +25 °C
[3] Limit values, operation in short-circuit protected network max. 8 A
[4] May not exceed or fall short of V_S tolerances
[5] Without load
[6] Signal transit time with resistive load
[7] With light/dark ratio 1:1
[8] Do not bend below 0 °C
[9] Reference voltage 50 V DC

Sanning distance



1 Scanning range on black, 6 % remission
2 Scanning range on gray, 18 % remission
3 Scanning range on white, 90 % remission



Ordering information

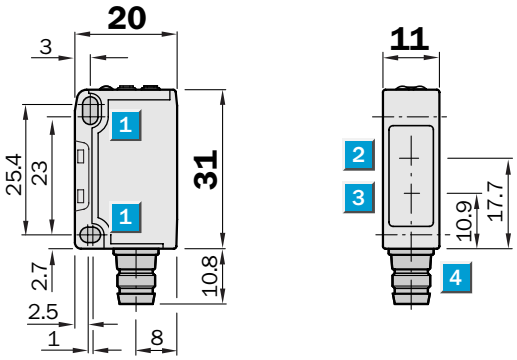
Type	Order No.
WTB140-N122	6012628
WTB140-N132	6012636
WTB140-N330	6012638
WTB140-N420	6012631
WTB140-N430	6012639
WTB140-P122	6012632
WTB140-P132	6012640
WTB140-P330	6012642
WTB140-P420	6012635
WTB140-P430	6012643

Scanning distance
0 ... 1,000 mm

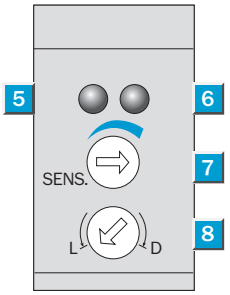
Photoelectric proximity switch

- Energetic photoelectric switch for standard applications
- Adjustable switching point
- Red light as alignment aid
- LED indicator: operating reserve

Dimensional drawing

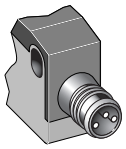
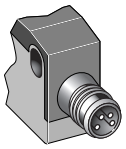
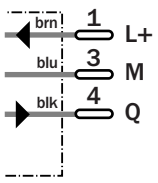
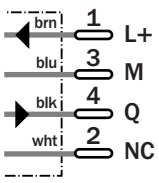
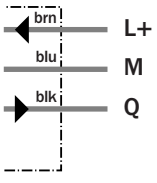


Adjustments possible



1 Mounting hole Ø 3.2 mm for M3
2 Optics center receiver
3 Optics center transmitter
4 Connector
5 Green LED indicator: light reception with operating reserve >1.1 and <0.9
6 Orange LED indicator:switching output active
7 Sensitivity setting (270 °)
8 Light/dark rotary switch: L = light switching, D = dark switching

Connection type

WTE140-2N330 WTE140-2P330	WTE140-2N430 WTE140-2P430	WTE140-2N132 WTE140-2P132
		
M8, 3-pin	M8, 4-pin	3 x 0.18 mm²
		

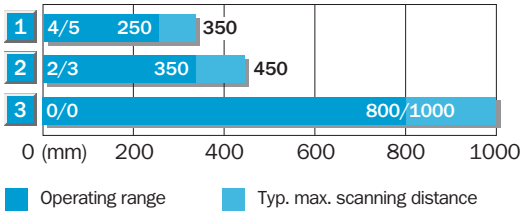
Accessories

Connector, M8, 3-pin
Connector, M8, 4-pin
Mounting systems

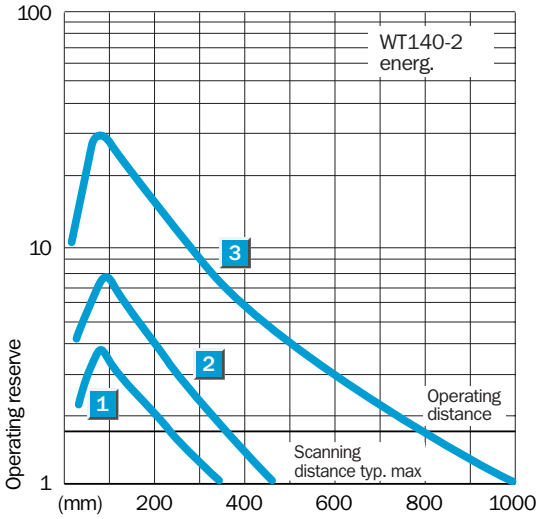
	WTE140-2	N132	N330	N430	P132	P330	P430
Scanning distance typ. max.	0 ... 1,000 mm[1]	■	■	■	■	■	■
Operating distance	0 ... 800 mm[1]	■	■	■	■	■	■
Adjustment of operating distance	Potentiometer	■	■	■	■	■	■
Light source, light type	LED, Red light, 680 nm[2]	■	■	■	■	■	■
Light spot diameter	Approx. 50 mm at 300 mm distance	■	■	■	■	■	■
Angle of dispersion	Ca. 9,6 °	■	■	■	■	■	■
Supply voltage V_S	DC 10 ... 30 V[3]	■	■	■	■	■	■
Ripple	± 10 %[4]	■	■	■	■	■	■
Power consumption	≤ 30 mA[5]	■	■	■	■	■	■
Switching outputs	NPN: open collector: Q	■	■	■			
	PNP: open collector: Q				■	■	■
Switching mode	Light-/dark-switching via rotary switch	■	■	■	■	■	■
Signal voltage PNP HIGH / LOW	V_S - 1.8 V / approx. 0 V				■	■	■
Signal voltage NPN HIGH / LOW	Approx. V_S / < 1.8 V	■	■	■			
Output current $I_a$max	100 mA	■	■	■	■	■	■
Response time	≤ 0.5 ms[6]	■	■	■	■	■	■
Switching frequency	1,000 Hz[7]	■	■	■	■	■	■
Connection type	Cable, PVC, 2 m[8]	■			■		
	Connector, M8, 3-pin		■			■	
	Connector, M8, 4-pin			■			■
VDE protection class	⧈[9]	■	■	■	■	■	■
Circuit protection	V_S connections reverse-polarity protected / In-/outputs short-circuit protected / Interference suppression / Outputs overcurrent and short-circuit protected	■	■	■	■	■	■
Enclosure rating	IP 67	■	■	■	■	■	■
Ambient temperature operation	-25 °C ... +55 °C	■	■	■	■	■	■
Ambient temperature storage	-40 °C ... +70 °C	■	■	■	■	■	■
Weight	Ca. 53 g	■			■		
	Ca. 9 g		■	■		■	■
Housing material	PBT, PC	■	■	■	■	■	■

[1] Object with 90% remission (based on standard white to DIN 5033)
[2] Average service life 100,000 h at T_a = +25 °C
[3] Limit values, operation in short-circuit protected network max. 8 A
[4] May not exceed or fall short of V_S tolerances
[5] Without load
[6] Signal transit time with resistive load
[7] With light/dark ratio 1:1
[8] Do not bend below 0 °C
[9] Reference voltage 50 V DC

Scanning distance and operating reserve



1 Scanning range on black, 6 % reflectance
2 Scanning range on gray, 18 % reflectance
3 Scanning range on white, 90 % reflectance



Ordering information

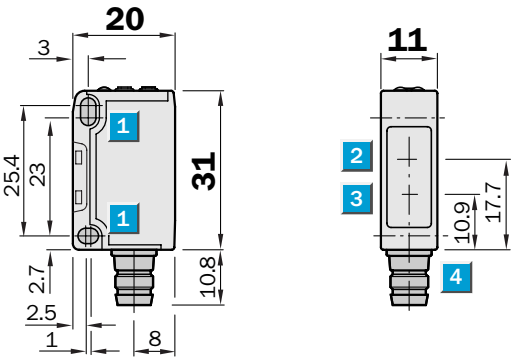
Type	Order No.
WTE140-2N132	6024800
WTE140-2N330	6024802
WTE140-2N430	6024803
WTE140-2P132	6024804
WTE140-2P330	6024806
WTE140-2P430	6024807

Scanning range
0.01 ... 6.5 m

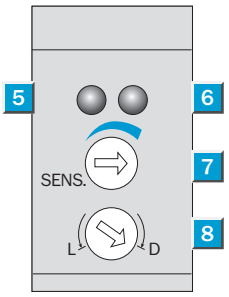
Photoelectric reflex switch

- Polarisation filter for detection of objects with shiny surfaces
- Also suitable for "Diamond Grade" reflective tape
- Red light as alignment aid
- LED indicator: operating reserve

Dimensional drawing



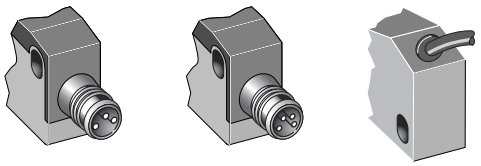
Adjustments possible



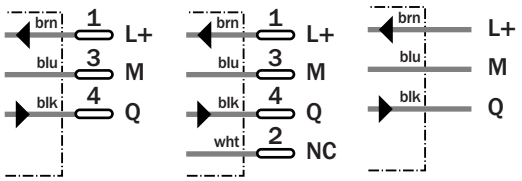
1 Mounting hole Ø 3.2 mm for M3
2 Optics center receiver
3 Optics center transmitter
4 Connector
5 Green LED indicator: light reception with operating reserve >1.1 and <0.9
6 Orange LED indicator:switching output active
7 Sensitivity setting (270 °)
8 Light/dark rotary switch: L = light switching, D = dark switching

Connection type

WL140-2N330 WL140-2P330	WL140-2N430 WL140-2P430	WL140-2N132 WL140-2P132



M8, 3-pin	M8, 4-pin	3 x 0.18 mm²



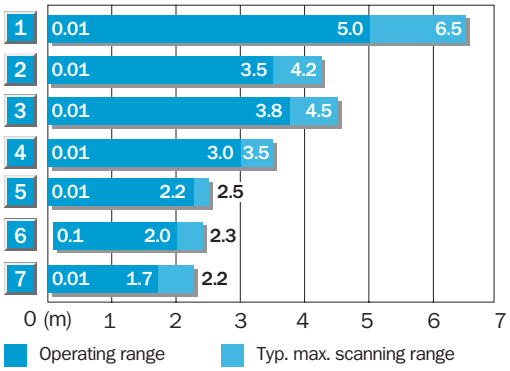
Accessories

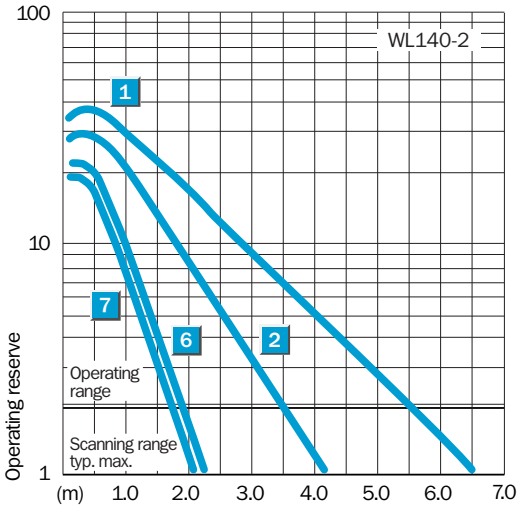
- Connector, M8, 3-pin
- Connector, M8, 4-pin
- Mounting systems
- Reflectors

	WL140-2	N132	N330	N430	P132	P330	P430
Scanning range typ. max.	0.01 ... 6.5 m	■	■	■	■	■	■
Scanning range, recommended	0.01 ... 5 m	■	■	■	■	■	■
Relating to	Reflector PL80A	■	■	■	■	■	■
Sensitivity adjustment	Potentiometer	■	■	■	■	■	■
Light source, light type	LED, Red light, 680 nm[1]	■	■	■	■	■	■
Light spot diameter	Approx. 250 mm at 2.5 m distance	■	■	■	■	■	■
Angle of dispersion	Ca. 5.8 °	■	■	■	■	■	■
Polarisation filter	✓	■	■	■	■	■	■
Supply voltage V_S	DC 10 ... 30 V[2]	■	■	■	■	■	■
Ripple	± 10 %[3]	■	■	■	■	■	■
Power consumption	≤ 30 mA[4]	■	■	■	■	■	■
Switching outputs	NPN: open collector: Q	■	■	■			
	PNP: open collector: Q				■	■	■
Switching mode	Light-/dark-switching via rotary switch	■	■	■	■	■	■
Signal voltage PNP HIGH / LOW	V_S - 1.8 V / approx. 0 V				■	■	■
Signal voltage NPN HIGH / LOW	Approx. V_S / < 1.8 V	■	■	■			
Output current $I_a$max	100 mA	■	■	■	■	■	■
Response time	≤ 0.5 ms[5]	■	■	■	■	■	■
Switching frequency	1,000 Hz[6]	■	■	■	■	■	■
Connection type	Cable, PVC, 2 m[7]	■			■		
	Connector, M8, 3-pin		■			■	
	Connector, M8, 4-pin			■			■
VDE protection class	⧈[8]	■	■	■	■	■	■
Circuit protection	V_S connections reverse-polarity protected / In-/outputs short-circuit protected / Interference suppression / Outputs overcurrent and short-circuit protected	■	■	■	■	■	■
Enclosure rating	IP 67	■	■	■	■	■	■
Ambient temperature operation	-25 °C ... +55 °C	■	■	■	■	■	■
Ambient temperature storage	-40 °C ... +70 °C	■	■	■	■	■	■
Weight	Ca. 53 g	■			■		
	Ca. 9 g		■	■		■	■
Housing material	PBT, PMMA	■	■	■	■	■	■

[1] Average service life 100,000 h at T_a = +25 °C
[2] Limit values, operation in short-circuit protected network max. 8 A
[3] May not exceed or fall short of V_S tolerances
[4] Without load
[5] Signal transit time with resistive load
[6] With light/dark ratio 1:1
[7] Do not bend below 0 °C
[8] Reference voltage 50 V DC

Scanning range and operating reserve





	Reflector type	Operating range
1	PL 80 A	0.01 ... 5.0 m
2	P 250	0.01 ... 3.5 m
3	PL 50 A/PL 40 A	0.01 ... 3.8 m
4	PL 30 A/PL 31 A	0.01 ... 3.0 m
5	PL 20 A	0.01 ... 2.2 m
6	Reflective tape Diamond Grade	0.1 ... 2.0 m (100 x 100 mm²)
7	P 45	0.01 ... 1.7 m

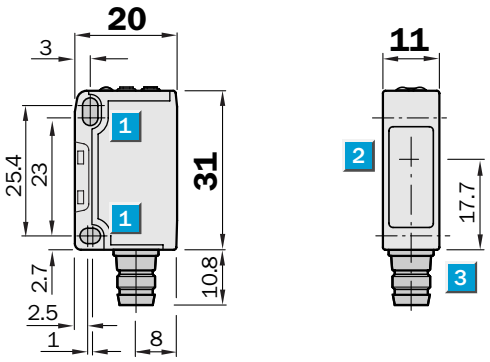
Ordering information	
Type	**Order No.**
WL140-2N132	6024792
WL140-2N330	6024794
WL140-2N430	6024795
WL140-2P132	6024796
WL140-2P330	6024798
WL140-2P430	6024799

Scanning range
0 ... 16 m

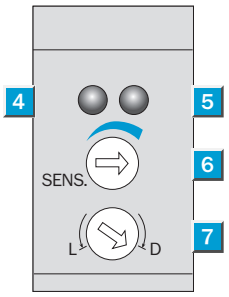
Through-beam photoelectric switch

- Polarisation filter (accessories), consequently no mutual interference when mounted in pairs
- Slotted masks (accessories) for detecting small parts or positioning jobs
- Sensitivity adjustable
- Red light as alignment aid
- LED indicator: operating reserve

Dimensional drawing



Adjustments possible



1 Mounting hole Ø 3.2 mm for M3
2 Optics center transmitter, WS140-2
Optics receiver transmitter, WE140-2
3 Connector
4 Green LED indicator: light reception with operating reserve > 1.1 and < 0.9 (WE140-2)
5 Orange LED indicator:Switching output active
6 Sensitivity setting (270 °,WE140-2)
7 Light/dark rotary switch: L = light switching, D = dark switching (WE140-2)

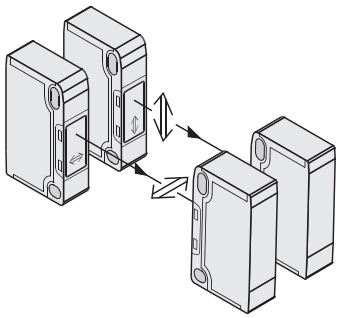
WS/WE140-2 mounting in pairs

No mutual interference thanks to use of polarisation filter tip adapters BL-140-POLF

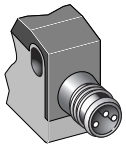
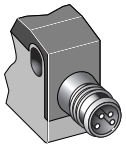
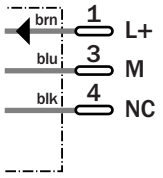
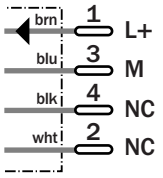
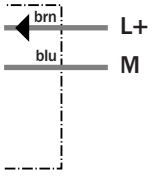
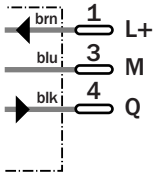
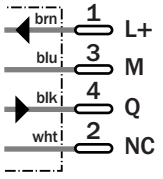
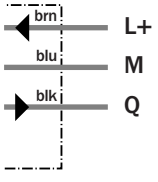
e.g.

Pair 1: BL-140-POLF with polarisation level

Pair 2: BL-140-POLF with polarisation level



Connection type

	WS/WE140-2N330 WS/WE140-2P330	WS/WE140-2N430 WS/WE140-2P430	WS/WE140-2N132 WS/WE140-2P132
			
Sender	M8, 3-pin	M8, 4-pin	2 x 0.18 mm²
			
Receiver	M8, 3-pin	M8, 4-pin	3 x 0.18 mm²
			

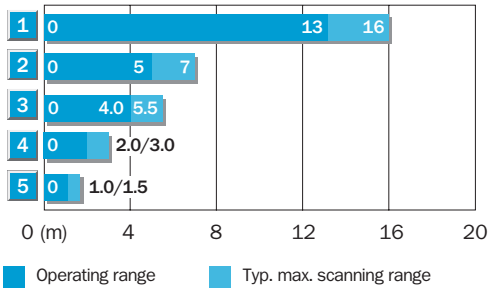
Accessories

- Connector, M8, 3-pin
- Connector, M8, 4-pin
- Masks
- Mounting systems
- Polarisation filters

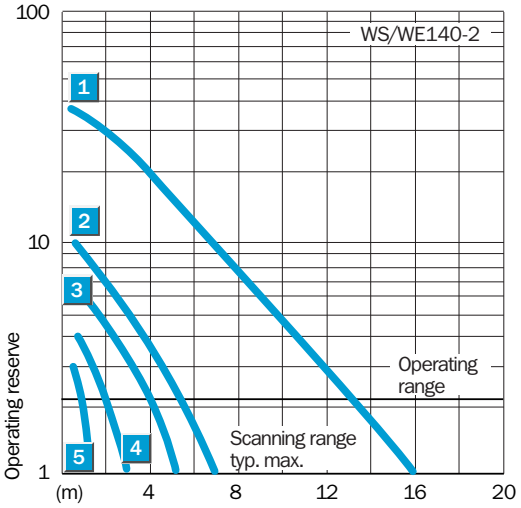
WS/WE140-2	N132	N330	N430	P132	P330	P430
Scanning range typ. max.	0 ... 16 m						
Scanning range, recommended	0 ... 13 m						
Sensitivity adjustment	Potentiometer						
Light source, light type	LED, Red light, 680 nm[1]						
Light spot diameter	Approx. 1,700 mm at 13 m distance						
Angle of dispersion	Ca. 7.6 °						
Angle of reception	Ca. 15 °						
Supply voltage V_S	DC 10 ... 30 V[2]						
Ripple	± 10 %[3]						
Power consumption, sender	≤ 15 mA[4]						
Power consumption, receiver	≤ 20 mA[4]						
Switching outputs	NPN: open collector: Q						
	PNP: open collector: Q						
Switching mode	Light-/dark-switching via rotary switch						
Signal voltage PNP HIGH / LOW	V_S - 1.8 V / approx. 0 V						
Signal voltage NPN HIGH / LOW	Approx. V_S / < 1.8 V						
Output current $I_a$max	100 mA						
Response time	≤ 0.5 ms[5]						
Switching frequency	1,000 Hz[6]						
Connection type	Cable, PVC, 2 m[7]						
	Connector, M8, 3-pin						
	Connector, M8, 4-pin						
VDE protection class	⧈[8]						
Circuit protection	V_S connections reverse-polarity protected / In-/outputs short-circuit protected (only WE140-2) / Interference suppression (only WE140-2) / Outputs overcurrent and short-circuit protected (only WE140-2)						
Enclosure rating	IP 67						
Ambient temperature operation	-25 °C ... +55 °C						
Ambient temperature storage	-40 °C ... +70 °C						
Weight	Ca. 53 g						
	Ca. 9 g						
Housing material	PBT, PC						

[1] Average service life 100,000 h at T_a = +25 °C
[2] Limit values, operation in short-circuit protected network max. 8 A
[3] May not exceed or fall short of V_S tolerances
[4] Without load
[5] Signal transit time with resistive load
[6] With light/dark ratio 1:1
[7] Do not bend below 0 °C
[8] Reference voltage 50 V DC

Scanning range and operating reserve



Scanning range reduction when slotted masks are used	
1	Without masks/polarizing filter
2	With polarizating filter tip adapter
3	With slotted mask, width 2.0 mm
4	With slotted mask, width 1.0 mm
5	With slotted mask, width 0.5 mm



Ordering information

Type	Order No.
WS/WE140-2N132	6024784
WS/WE140-2N330	6024786
WS/WE140-2N430	6024787
WS/WE140-2P132	6024788
WS/WE140-2P330	6024790
WS/WE140-2P430	6024791

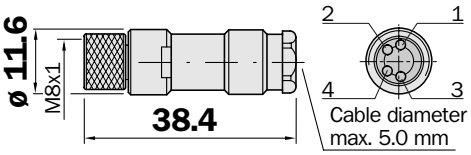
Dimensional drawings and order information

Connectors

SENSICK screw-in system M8, 3- or 4-pin, enclosure rating IP 67

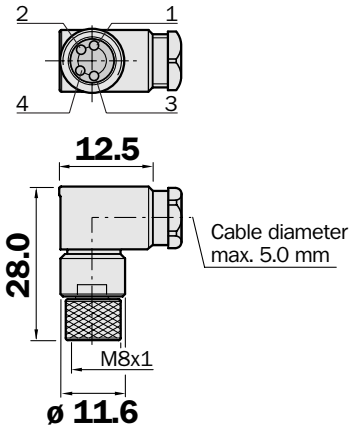
Female connector M8, 3- or 4-pin, straight

Type	Order no.	Contacts
DOS-0803-G	7902077	3
DOS-0804-G	6009974	4



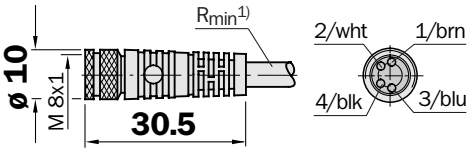
Female connector M8, 3- or 4-pin, right angle

Type	Order no.	Contacts
DOS-0803-W	7902078	3
DOS-0804-W	6009975	4



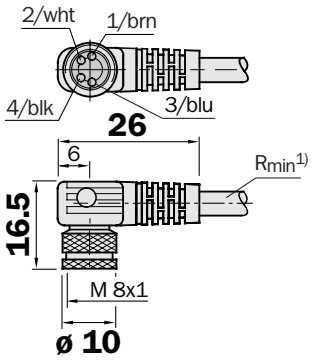
Female connector M8, 3- or 4-pin, straight
3 x 0.34 mm² or 4 x 0.25 mm², sheath PVC

Type	Order no.	Contacts	Cable length
DOL-0803-G02M	6010785	3	2 m
DOL-0803-G05M	6022009	3	5 m
DOL-0803-G10M	6022011	3	10 m
DOL-0804-G02M	6009870	4	2 m
DOL-0804-G05M	6009872	4	5 m
DOL-0804-G10M	6010754	4	10 m



Female connector M8, 3- or 4-pin, right angle
3 x 0.34 mm² or 4 x 0.25 mm², sheath PVC

Type	Order no.	Contacts	Cable length
DOL-0803-W02M	6008489	3	2 m
DOL-0803-W05M	6022010	3	5 m
DOL-0803-W10M	6022012	3	10 m
DOL-0804-W02M	6009871	4	2 m
DOL-0804-W05M	6009873	4	5 m
DOL-0804-W10M	6010755	4	10 m



1) Minimum bend radius in dynamic use
R_{min} = 20 x cable diameter

Dimensional drawings and order information

Connectors

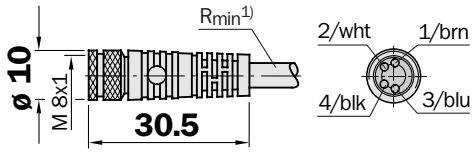
SENSICK screw-in system M8, 3- or 4-pin, enclosure rating IP 67

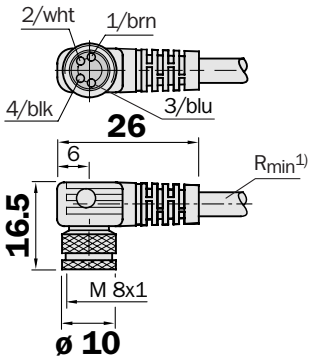
Female connector M8, 3- or 4-pin, straight
3/4 x 0.34 mm², sheath PUR halogen free

Type	Order no.	Contacts	Cable length
DOL-0803-G02MC	6025888	3	2 m
DOL-0803-G05MC	6025889	3	5 m
DOL-0803-G10MC	6025890	3	10 m
DOL-0804-G02MC	6025894	4	2 m
DOL-0804-G05MC	6025895	4	5 m
DOL-0804-G10MC	6025896	4	10 m

Female connector M8, 3- or 4-pin, right angle
3/4 x 0.34 mm², sheath PUR halogen free

Type	Order no.	Contacts	Cable length
DOL-0803-W02MC	6025891	3	2 m
DOL-0803-W05MC	6025892	3	5 m
DOL-0803-W10MC	6025893	3	10 m
DOL-0804-W02MC	6025897	4	2 m
DOL-0804-W05MC	6025898	4	5 m
DOL-0804-W10MC	6025899	4	10 m





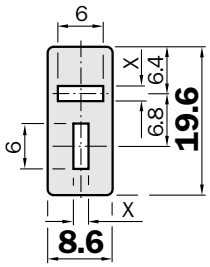
1) Minimum bend radius in dynamic use
R_{min} = 20 x cable diameter

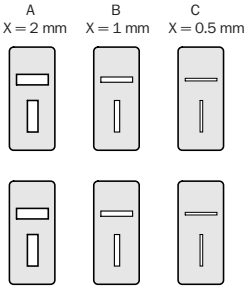
Masks/polarizing filter

Slotted masks for WS/WE140-2 *)
Slot width X: 0.5 mm/1.0 mm/2.0 mm

Type	Order no.
BL-140	5308458

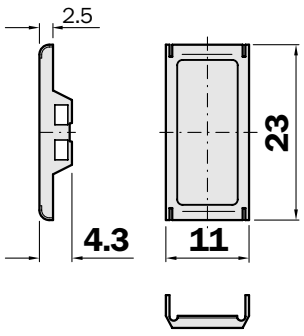
*) Two pieces each





Polarizing filter for WS/WE140-2

Type	Order no.	Model
BL-140-POLF	5308457	4 pieces, each 2x for X and Y polarizing



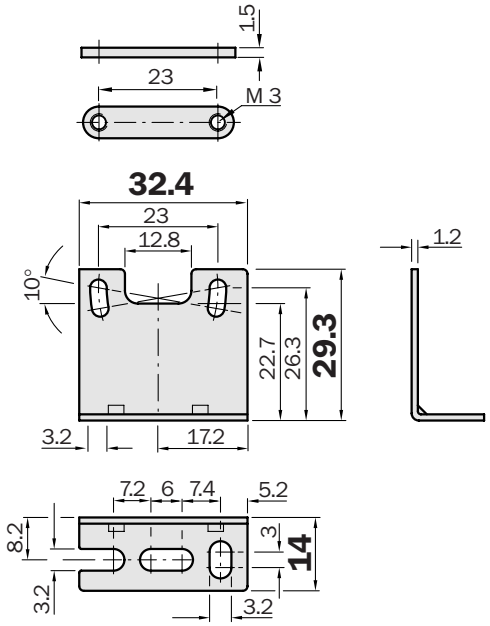
3 pairs with slot widths A, B and C are supplied with equipment.
Mounting by self-adhesive back.
Stick mask on red optics body of WS140-2 and WE140-2.
For detecting smaller objects or increasing the switching accuracy.
Only for WS/WE140-2.
Changed operating ranges:
A) Slot width 2.0 mm: SR = 4.0 m
B) Slot width 1.0 mm: SR = 2.0 m
C) Slot width 0.5 mm: SR = 1.0 m

Dimensional drawings and order information

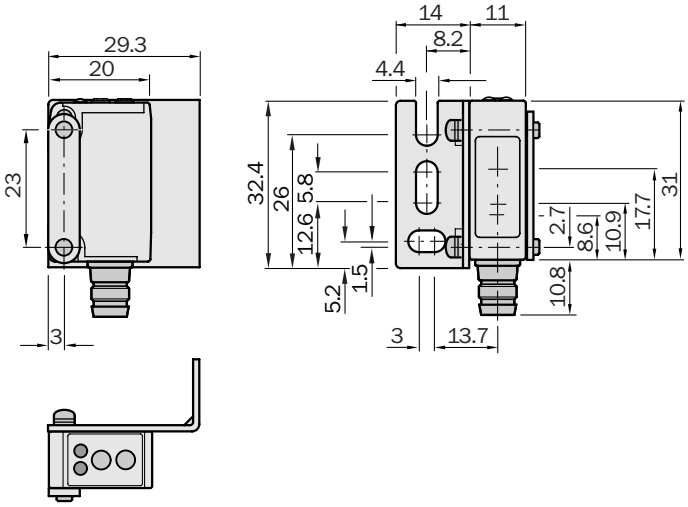
Mounting systems

Mounting bracket, horizontal for W140-2 *)

Type	Order no.
BEF-W140-A	5308098



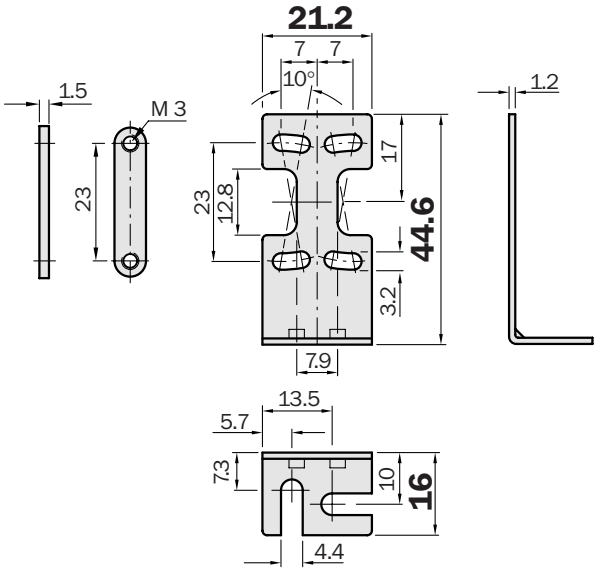
Mounting



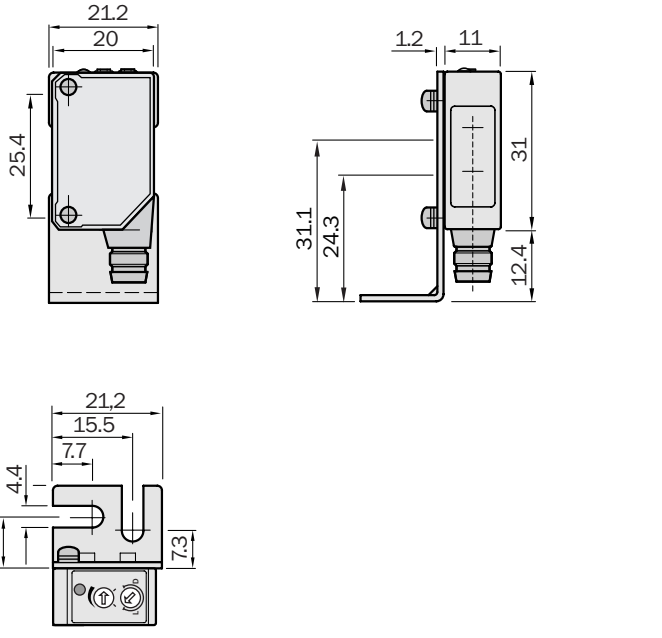
*) Included with delivery W140-2

Mounting bracket, vertical for W140-2

Type	Order no.
BEF-W140-B	5308519



Mounting

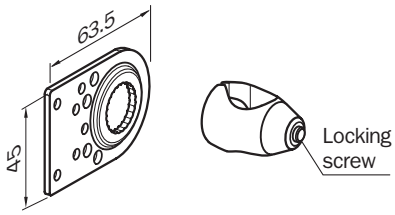


Dimensional drawings and order information

Mounting systems

Mounting plate for universal bar clamp

Type	Order no.	Mounting plate
BEF-KHS-L01	2023057	L

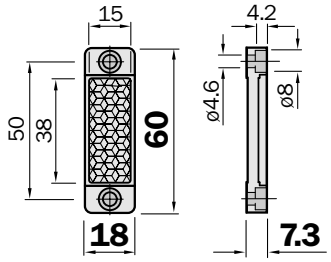


L

Reflectors, plastic design for temperatures up to 65 °C

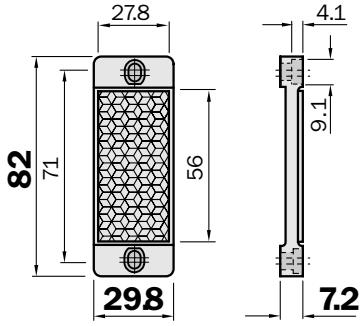
Reflector 20 x 40 mm

Type	Order no.
PL20A	1012719



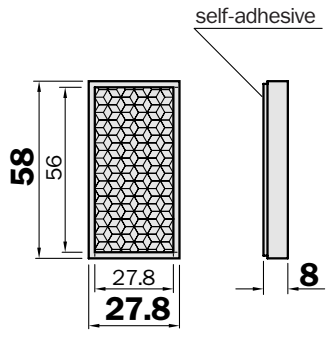
Reflector 30 x 50 mm

Type	Order no.
PL30A	1002314



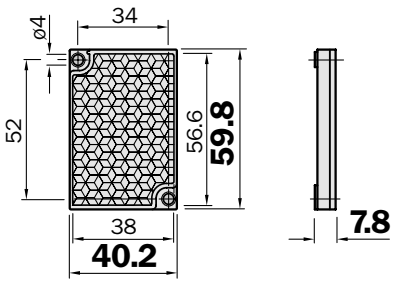
Reflector 30 x 50 mm

Type	Order no.
PL31A	1002315



Reflector 40 x 60 mm

Type	Order no.
PL40A	1012720

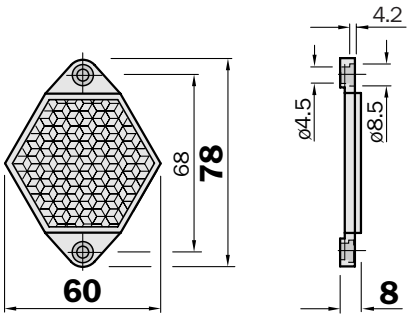


Dimensional drawings and order information

Reflectors, plastic design for temperatures up to 65 °C

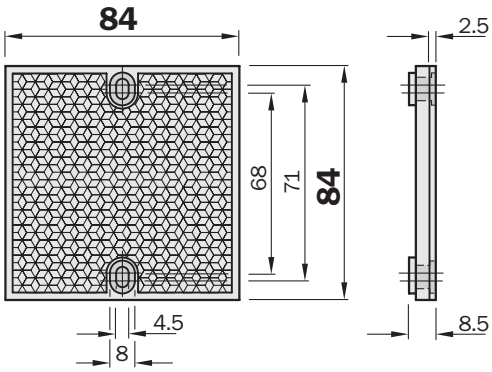
Reflector 6-sided, width across flat 52 mm, screwable

Type	Order no.
PL50A	1000132



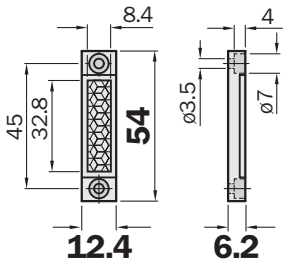
Reflector 80 x 80 mm

Type	Order no.
PL80A	1003865



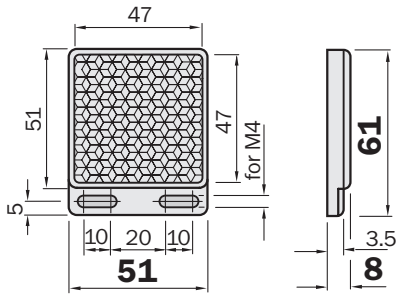
Reflector 32,8 x 8,4 mm, screwable*)

Type	Order no.
P45	5308002



Reflector 47 x 47 mm*)

Type	Order no.
P250	5304812



*) Included with delivery WL140-2 standard types.

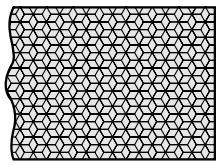
Dimensional drawings and order information

Self-adhesive reflective tape for photoelectric switches with polarizing filter

Reflective tape “Diamond Grade”

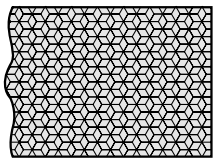
Cut to size

Type	Order no.
REF-DG-K	4019634



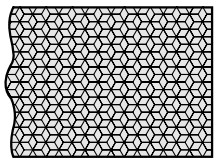
Reflective tape, self-adhesive, length of roll 22.8 m

Type	Order no.	Width
REF-PLUS-R25	5319929	25 mm
REF-PLUS-R50	5319981	50 mm



Reflective tape, self-adhesive, cut to size

Type	Order no.	Width
REF-PLUS-R25-K	4051184	25 mm
REF-PLUS-R50-K	4051185	50 mm



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