Passive Distributor ASi, IP67

connections for profile cables 1 x ASi, 2 x ASi or connections for profile cables for 1 x ASi + 1 x AUX

- **to M8 cable sockets**
- **to M8 snap-in cable sockets**
- **to M12 sockets / cable sockets**
- **to connecting wires**
- **to round cable / connecting wires**
- **as profile cable branch**

(figure similar)

optionally with changeable or self-resetting fuses

Figure	Type	Flat design, montage in cable duct possible	Internal fuse [1]	Profile cable connection	Connection [2]	Round cable [3]	Protection category	Article no.
	IP67, 35 mm deep	no	4 A, changeable	1 x ASi, 1 x AUX	2 x M12 sockets, 5-poles	-	IP67	**BWU3087**
	IP67, 35 mm deep	no	1 A, self-resetting	1 x ASi, 1 x AUX	2 x M12 sockets, 5-poles	-	IP67	**BWU3117**
	IP67, 35 mm deep	no	-	1 x ASi, 1 x AUX	2 x M12 sockets, 5-poles	-	IP67	**BWU3184**
	IP67, 35 mm deep	no	4 A, changeable	1 x ASi, 1 x AUX	1 x M12 socket, 5-poles	-	IP67	**BWU3491**
	IP67, 35 mm deep	no	1 A, self-resetting	1 x ASi, 1 x AUX	1 x M12 socket, 5-poles	-	IP67	**BWU3492**
	IP67, 35 mm deep	no	-	1 x ASi, 1 x AUX	1 x M12 socket, 5-poles	-	IP67	**BWU3493**
	IP67, 28 mm deep	no	-	1 x ASi, 1 x AUX	1 x M12 socket, 5-poles	-	IP67	**BW3803**
	IP67, 19 mm deep	yes, 19 mm deep	8 A slow-blow fuse + 1 A, self-resetting	1 x ASi, 1 x AUX	1 x M8 cable socket, straight, 5-poles + 1 x M8 cable socket, straight, 4-poles	0,20 m	IP67	**BW3276**
	IP67, 19 mm deep	yes, 19 mm deep	4 A slow-blow fuse + 1 A, self-resetting	1 x ASi, 1 x AUX	1 x M8 snap-in cable socket, straight, 4-poles	0,20 m	IP67	**BW3681**
	IP67, 19 mm deep	yes, 19 mm deep	8 A slow-blow fuse	1 x ASi, 1 x AUX	1 x round cable / connecting wires	1,3 m	IP67	**BW3423**
	IP67, 19 mm deep	yes, 19 mm deep	1 A, self-resetting	1 x ASi, 1 x AUX	1 x M12 cable socket, angled, 5-poles	2 m	IP67	**BW3246**
	IP67, 19 mm deep	yes, 19 mm deep	-	1 x ASi, 1 x AUX	1 x M12 cable socket, angled, 5-poles	2 m	IP67	**BWU3183**
	IP67, 19 mm deep	yes, 19 mm deep	-	1 x ASi, 1 x AUX	1 x M12 cable socket, angled, 5-poles	1 m	IP67	**BWU3408**
	IP67, 19 mm deep	yes, 19 mm deep	-	1 x ASi, 1 x AUX	1 x M12 cable socket, straight, 5-poles	2 m	IP67	**BW3911**
	IP67, 19 mm deep	yes, 19 mm deep	-	1 x ASi, 1 x AUX	1 x M12 cable socket, straight, 5-poles	1 m	IP67	**BWU3403**
	IP67, 19 mm deep	yes, 19 mm deep	-	1 x ASi, 1 x AUX	1 x M12 cable socket, straight, 5-poles	0,3 m	IP67	**BWU3778**
	IP67, 19 mm deep	yes, 19 mm deep	-	1 x ASi, 1 x AUX	1 x M12 cable socket, straight, 5-poles	0,05 m	IP67	**BW3805**
	IP67, 19 mm deep	yes, 19 mm deep	-	1 x ASi, 1 x AUX	1 x round cable / connecting wires	5 m	IP67	**BW3315**
	IP67, 19 mm deep	yes, 19 mm deep	-	1 x ASi, 1 x AUX	1 x round cable / connecting wires	2 m	IP67	**BWU3314**
	IP67, 19 mm deep	yes, 19 mm deep	-	1 x ASi, 1 x AUX	1 x round cable / connecting wires	1,3 m	IP67	**BW3512**
	IP67, 19 mm deep	yes, 19 mm deep	-	2 x ASi	1 x M12 cable socket, angled, 5-poles	2 m	IP67	**BWU3185**
	IP67, 19 mm deep	yes, 19 mm deep	-	2 x ASi	1 x M12 cable socket, straight, 5-poles	2 m	IP67	**BWU3247**
	IP67, 19 mm deep	yes, 19 mm deep	-	2 x ASi	1 x round cable / connecting wires	0,25 m	IP67	**BW3186**

Passive Distributor ASi, IP67

Figure	Type	Flat design, montage in cable duct possible	Internal fuse [1]	Profile cable connection	Connection [2]	Round cable [3]	Protection category	Article no.
	IP67, 19 mm deep	yes, 19 mm deep	-	2 x ASi	1 x round cable / connecting wires	5 m	IP67	**BW3524**
	IP67, 19 mm deep	yes, 19 mm deep	-	1 x ASi	1 x M12 cable socket, angled, 5-poles	1 m	IP67	**BWU3407**
	IP67, 19 mm deep	yes, 19 mm deep	-	2 x ASi	profile cable branch	-	IP67	**BWU3157**

(1) **Internal fuse**

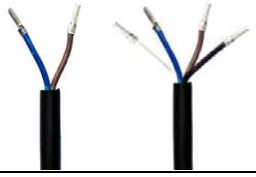
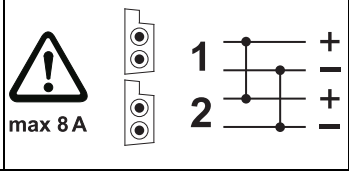
4 A, changeable: The internal protection is realized via changeable 4 A fuses (slow-blow) for ASi and AUX. At each M12 connection ≤4 A are available.

1 A, self-resetting: The internal protection is realized via self-resetting 1 A fuses for ASi and AUX. At each M12 connection ≤1 A are available.

8 A slow-blow fuse + 1 A, self-resetting: The internal protection is realized via one 8 A slow-blow fuse for AUX and via one self-resetting 1 A fuse for ASi. At each M8 connection (AUX) ≤6 A are available, at each M8 connection (ASi) ≤1 A are available.

4 A slow-blow fuse + 1 A, self-resetting: The internal protection is realized via one 4 A slow-blow fuse for AUX and via one self-resetting 1 A fuse for ASi. At each M8 connection (AUX) ≤4 A are available, at each M8 connection (ASi) ≤1 A are available.

(2) **Connection**: further connection options are available on request.

M12 cable socket, angled	M12 cable socket, straight	M8 cable socket, straight	round cable / connecting wires	profile cable branch
PUR line: oil resistant				
				

(3) **Cable:** other cable lengths are available on request.

Under normal conditions (no bus termination or repeater), the permissible total length of the **ASi segment is max. 100 m**. The calculation should take into consideration that the length of the connection cable (**round cable**) for each connected **Passive Distributor** must be **doubled**. In the case of the **Active Distributors** (ASi slaves) however only the **one** ASi profile cable is counted.

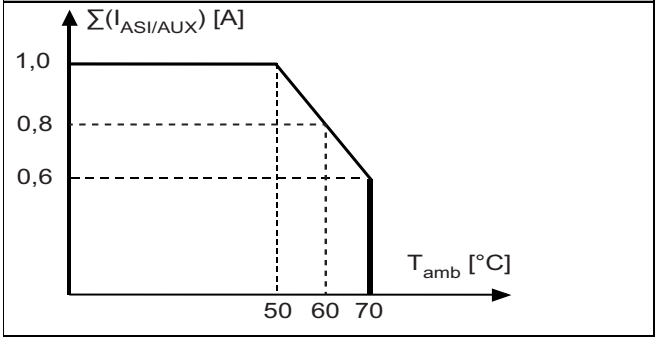
Article No.		BWU3184	BWU3087	BWU3117
Connection				
Profile cable connection		1 x ASi, 1 x AUX profile cable and piercing		
Connection		2 x M12 sockets, 5-poles		
Round cable		–		
Operating voltage		10 ... 32 V_{DC} PELV		
Operating current	up to +50 °C	≤4 A at each M12 connection		≤1 A at each M12 connection (3)
	at +60 °C			≤0,8 A at each M12 connection (3)
	at +70 °C			≤0,6 A at each M12 connection (3)
Internal fuse		-	2 x 4 A changeable fuses for ASi and AUX for each M12 connection	2 x 1 A self-resetting fuses for ASi and AUX for each M12 connection
UL-specifications (UL61010-1 and UL61010-2-201)				
External protection		An isolated source with a secondary open circuit voltage of ≤30 V_{DC} with a 3 A maximum over current protection. Over current protection is not required when a Class 2 source is employed.		
Display				
LED ASI1, ASI2 (green)		-	on: ASi voltage at M12 connection 1, 2 O.K.	
LED AUX1, AUX2 (green)		-	on: AUX voltage at M12 connection 1, 2 O.K.	
LED ASI (green)		on: ASi voltage at profile cable O.K.		
LED AUX (green)		on: AUX voltage at profile cable O.K.		
Environment				
Applied standards		EN 60529 EN 61000-6-2 EN 61000-6-3		
Operating altitude		max. 2000 m		
Ambient temperature		-30 °C … +70 °C (1) (3)		
Storage temperature		-25 °C … +85 °C		
Housing		plastic, for screw mounting		
Pollution degree		2		
Protection category		IP67 (2)		
Tolerable loading referring to humidity		according to EN 61131-2		
Maximum tolerable shock and vibration stress		≤15*g*, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude		
Insulation voltage		≥500 V		
Weight		91 g		
Dimensions (W / H / D) in mm		60 / 45 / 35		

(1) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.

(2) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67.

(3)

BWU3117
Derating operating current ASi/AUX

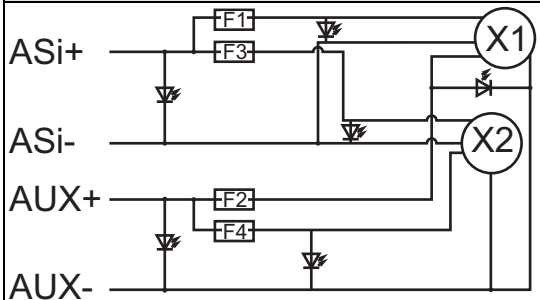


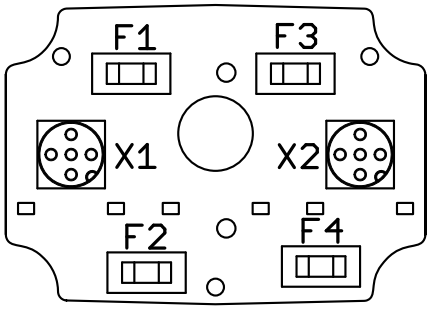
Notice

After each opening of the module, such as after replacing a fuse, check for proper function and correct placement of the seals.

Dirt, damage and/or shifting of the seals can compromise protection of the module against solid particles and liquids so that the specified protection category is no longer guaranteed.

Internal fuses	Position of changeable fuses
BWU3087	**BWU3087**

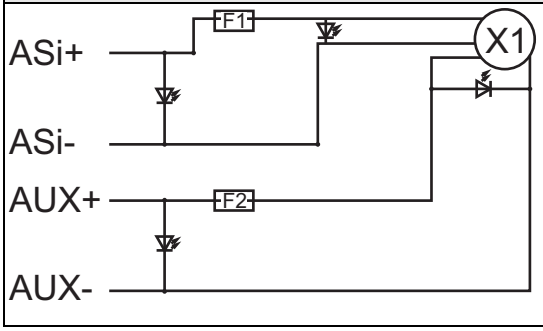
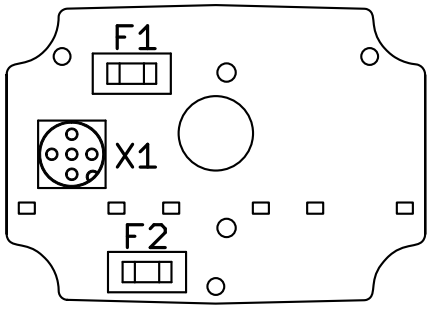




Article No.		BW3803	BWU3493	BWU3491	BWU3492
Connection					
Profile cable connection		1 x ASi, 1 x AUX profile cable and piercing			
Connection		1 x M12 socket, 5-poles			
Round cable		–			
Operating voltage		10 ... 32 V_{DC} PELV			
Operating current	up to +30 °C	≤4 A at each M12 connection			≤1 A at each M12 connection
	at +40 °C				
	at +50 °C				
Internal fuse		–		1 x 4 A changeable fuse for ASi and AUX for each M12 connection	1 x 1 A self-resetting fuse for ASi and AUX for each M12 connection
Display					
LED ASI1 (green)		–		on: ASi voltage at M12 connection 1 O.K.	
LED AUX1 (green)		–		on: AUX voltage at M12 connection 1 O.K.	
LED ASI (green)		–	on: ASi voltage at profile cable O.K.		
LED AUX (green)		–	on: AUX voltage at profile cable O.K.		
UL-specifications (UL61010-1 and UL61010-2-201)					
External protection		–	An isolated source with a secondary open circuit voltage of ≤30 V_{DC} with a 3 A maximum over current protection. Over current protection is not required when a Class 2 source is employed.		

Article No.	BW3803	BWU3493	BWU3491	BWU3492
Environment				
Applied standards	EN 60529 EN 61000-6-2 EN 61000-6-3			
Operating altitude	max. 2000 m			
Ambient temperature	-30 °C … +70 °C			
Storage temperature	-25 °C … +85 °C			
Housing	plastic, for screw mounting			
Pollution Degree	2			
Protection category	IP67 (1)			
Tolerable loading referring to humidity	according to EN 61131-2			
Maximum tolerable shock and vibration stress	≤15*g*, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude			
Insulation voltage	≥500 V			
Weight	91 g			
Dimensions (W / H / D) in mm	60 / 45 / 28	60 / 45 / 35		

(1) Protection category IP67 can only be achieved, if all open M12 sockets are sealed with suitable end caps (see „Accessories“).

Internal fuses	Position of changeable fuses
BWU3491, BWU3492	**BWU3491**
	

Article No.		BW3246	BW3276	BW3681	BW3423
Connection					
Profile cable connection		1 x ASi, 1 x AUX profile cable and piercing			
Connection		1 x M12 cable socket, angled, 5-poles	1 x M8 cable socket, straight, 5-poles + 1 x M8 cable socket, straight, 4-poles	1 x M8 snap-in cable socket, straight, 4-poles	1 x round cable/connecting wires
Round cable		2 m	0,20 m		1,3 m
		max. allowed tensile strain 10 N			
Operating voltage		10 ... 32 V_{DC} PELV			
Operating current	up to +30 °C	≤1 A at each M12 connection	≤6 A at each M8 connection (AUX) ≤1 A at each M8 connection (ASi)	≤4 A at each M8 connection (AUX) ≤1 A at each M8 connection (ASi)	≤8 A at each round cable/connecting wire (3)
	at +40 °C				≤7 A at each round cable/connecting wire (3)
	at +50 °C				≤6 A at each round cable/connecting wire (3)
Internal fuse		2 x 1 A self-resetting fuses for ASi and AUX for each M12 connection	1 x 8 A slow-blow fuse for AUX + 1 x 1 A self-resetting fuse for ASi	1 x 4 A slow-blow fuse for AUX (F2)+ 1 x 1 A self-resetting fuse for ASi (F1)	2 x 8 A slow-blow fuses for ASi and AUX

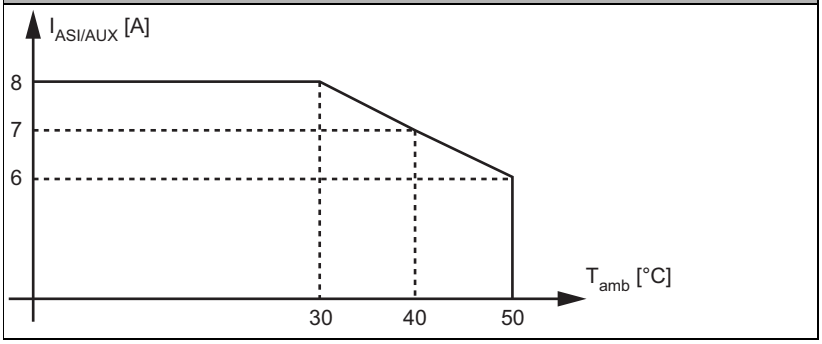
Article No.	BW3246	BW3276	BW3681	BW3423
Display				
LED ASI1, ASI2 (green)	on: ASi voltage at M12 connection 1 O.K.	on: ASi voltage at M8 connection 1 O.K.		on: ASi voltage at round cable O.K.
LED AUX1, AUX2 (green)	on: AUX voltage at M12 connection 1 O.K.	on: AUX voltage at M8 connection 1 O.K.		on: AUX voltage at round cable O.K.
LED ASI (green)	on: ASi voltage at profile cable O.K.			
LED AUX (green)	on: AUX voltage at profile cable O.K.			
Environment				
Applied standards	EN 60529 EN 61000-6-2 EN 61000-6-3			
Operating altitude	max. 2000 m			
Ambient temperature	-30 °C … +55 °C (1)			-30 °C … +50 °C (1)
Storage temperature	-25 °C … +85 °C			
Housing	plastic, for screw mounting, suitable for cable ducts (installation depth ≥19 mm)			
Pollution Degree	2			
Protection category	IP67 (2)			
Tolerable loading referring to humidity	according to EN 61131-2			
Maximum tolerable shock and vibration stress	≤15*g*, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude			
Insulation voltage	≥500 V			
Weight	75 g			100 g
Dimensions (W / H / D) in mm	60 / 45 / 19			

(1) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.

(2) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67.

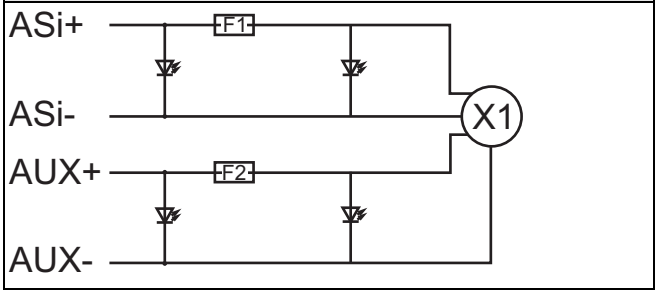
(3)

BW3423
Derating operating current ASi/AUX



Internal fuses

BW3423, BW3681



Article No.	BWU3157	BW3186	BW3524	BWU3247	BWU3185	BWU3407
Connection						
Profile cable connection	2 x ASi profile cable and piercing					1 x ASi profile cable and piercing
Connection	profile cable branch	1 x round cable / connecting wires		1 x M12 cable socket, straight, 5-poles	1 x M12 cable socket, angled, 5-poles	
Round cable	–	0,25 m	5 m	2 m		1 m
		max. allowed tensile strain 10 N				
Operating voltage	10 ... 32 V_{DC} PELV					
Operating current	profile cable and piercing (cable branch): ≤8 A					–
	–	≤4 A at each round cable / connecting wires		≤4 A at each M12 connection		
Internal fuses	–					
Environment						
Applied standards	EN 60529 EN 61000-6-2 EN 61000-6-3					
Operating altitude	max. 2000 m					
Ambient temperature	-30 °C … +70 ° C	-30 °C … +70 °C (2)				
Storage temperature	-25°C … +85 °C					
Housing	plastic, for screw mounting, suitable for cable ducts (installation depth ≥19 mm)					
Pollution Degree	2					
Protection category	IP67 (1)					
Tolerable loading referring to humidity	according to EN 61131-2					
Maximum tolerable shock and vibration stress	≤15*g*, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude					
Insulation voltage	≥500 V					
Weight	75 g		190 g	75 g		
Dimensions (W / H / D) in mm	60 / 45 / 19					

(1) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67.

(2) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.

Article No.	BWU3408	BWU3183	BW3911	BWU3403	BWU3778	BW3805
Connection						
Profile cable connection	1 x ASi, 1 x AUX profile cable and piercing					
Connection	1 x M12 cable socket, angled, 5-poles		1 x M12 cable socket, straight, 5-poles			
Round cable	1 m	2 m		1 m	0,3 m	0,05 m
	max. allowed tensile strain 10 N					
Operating voltage	10 ... 32 V_{DC} PELV					
Operating current	≤4 A at each connection					
Internal fuses	–					

Article No.	BWU3408	BWU3183	BW3911	BWU3403	BWU3778	BW3805
Environment						
Applied standards	EN 60529 EN 61000-6-2 EN 61000-6-3					
Operating altitude	max. 2000 m					
Ambient temperature	-30 °C … +70 °C (1)					
Storage temperature	-25 °C … +85 °C					
Housing	plastic, for screw mounting, suitable for cable ducts (installation depth ≥19 mm)					
Pollution Degree	2					
Protection category	IP67					
Tolerable loading referring to humidity	according to EN 61131-2					
Maximum tolerable shock and vibration stress	≤15*g*, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude					
Insulation voltage	≥500 V					
Weight	75 g					
Dimensions (W / H / D) in mm	60 / 45 / 19					

(1) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.

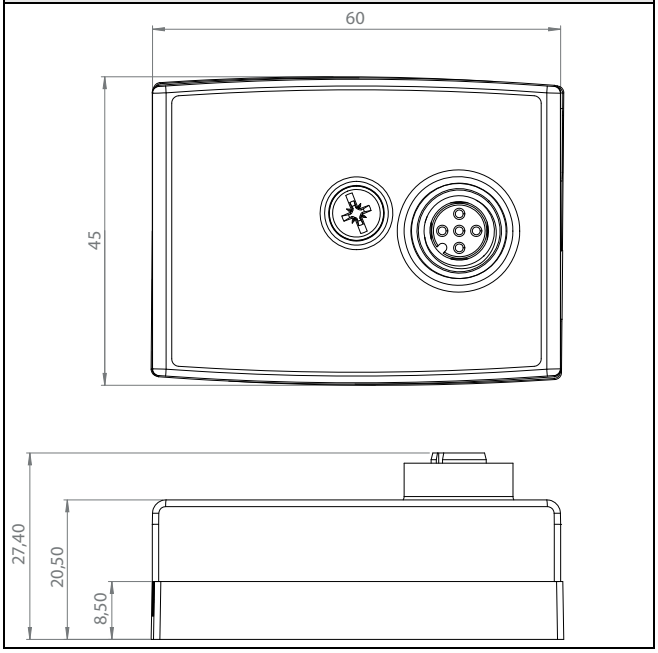
Article No.	BW3512	BWU3314	BW3315
Connection			
Profile cable connection	1 x ASi, 1 x AUX profile cable and piercing		
Connection	1 x round cable /connecting wires		
Round cable	1,3 m	2 m	5 m
	max. allowed tensile strain 10 N		
Operating voltage	10 ... 32 V_{DC} PELV		
Operating current	≤4 A at each connection		
Internal fuses	–		
Environment			
Applied standards	EN 60529 EN 61000-6-2 EN 61000-6-3		
Operating altitude	max. 2000 m		
Ambient temperature	-30 °C … +70 °C (1)		
Storage temperature	-25 °C … +85 °C		
Housing	plastic, for screw mounting, suitable for cable ducts (installation depth ≥19 mm)		
Pollution Degree	2		
Protection category	IP67 (2)		
Tolerable loading referring to humidity	according to EN 61131-2		
Maximum tolerable shock and vibration stress	≤15*g*, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude		
Insulation voltage	≥500 V		
Weight	75 g		190 g
Dimensions (W / H / D) in mm	60 / 45 / 19		

(1) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.

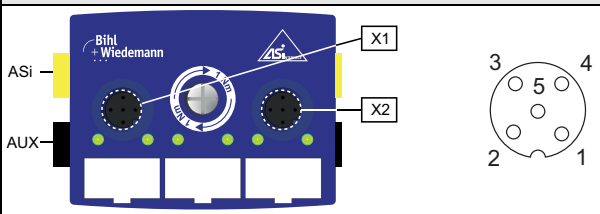
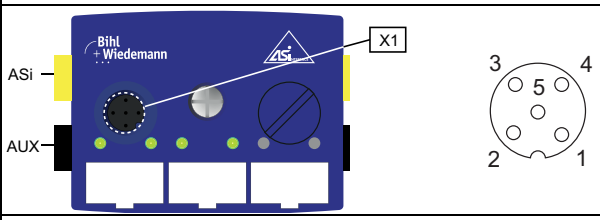
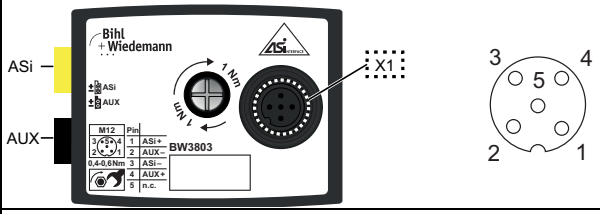
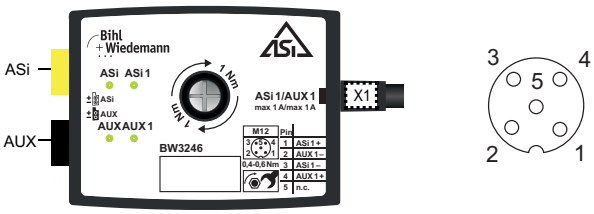
(2) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67.

Dimensional drawing

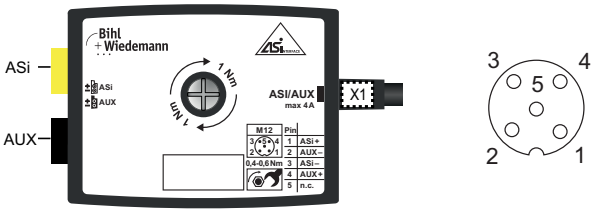
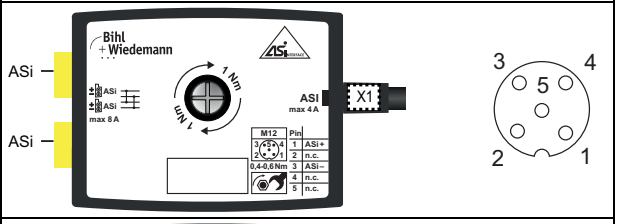
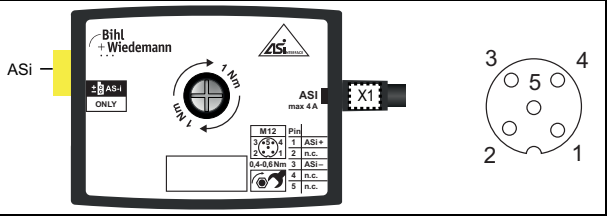
BW3803

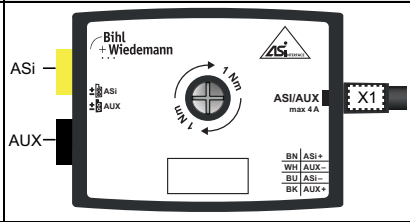
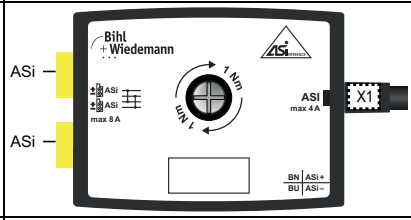
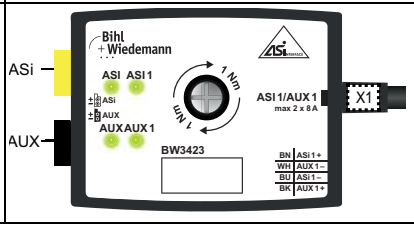


Connections: M12

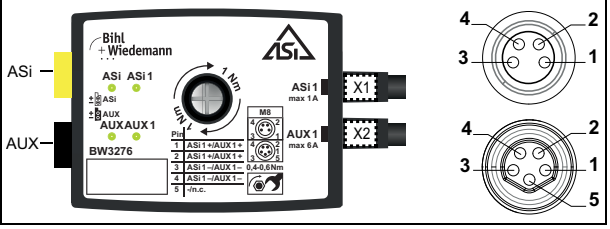
Article No.	M12 connection	Pin1	Pin2	Pin3	Pin4	Pin5	
BWU3087, BWU3117, BWU3184	**X1**	ASi +	AUX -	ASi -	AUX +	n.c.	
	X2	ASi +	AUX -	ASi -	AUX +	n.c.	
BWU3491, BWU3492, BWU3493	**X1**	ASi +	AUX -	ASi -	AUX +	n.c.	
BW3803	**X1**	ASi +	AUX -	ASi -	AUX +	n.c.	
BW3246	**X1**	ASi +	AUX -	ASi -	AUX +	n.c.	

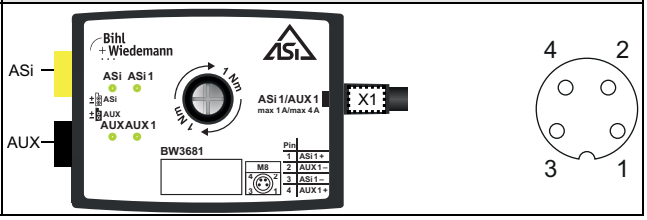
Passive Distributor ASi, IP67

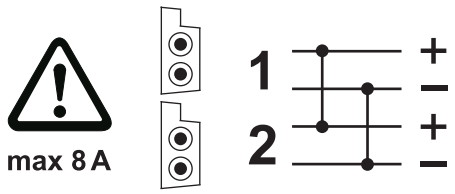
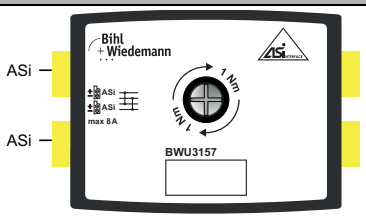
Connections: M12							
Article No.	**M12 connection**	**Pin1**	**Pin2**	**Pin3**	**Pin4**	**Pin5**	
BWU3183, BWU3403, BWU3408, BWU3778, BW3805, BW3911	**X1**	ASi +	AUX -	ASi -	AUX +	n.c.	
BWU3185, BWU3247	**X1**	ASi +	n.c.	ASi -	n.c.	n.c.	
BWU3407	**X1**	ASi +	n.c.	ASi -	n.c.	n.c.	

Connections: round cable/connecting wires						
Article No.	**round cable/ connecting wires**	**Brown (BN)**	**White (WH)**	**Blue (BU)**	**Black (BK)**	
BWU3314, BW3315, BW3512	**X1**	ASi+	AUX -	ASi-	AUX +	
BW3186, BW3524	**X1**	ASi+	-	ASi-	-	
BW3423	**X1**	ASi+	AUX-	ASi-	AUX+	

Passive Distributor ASi, IP67

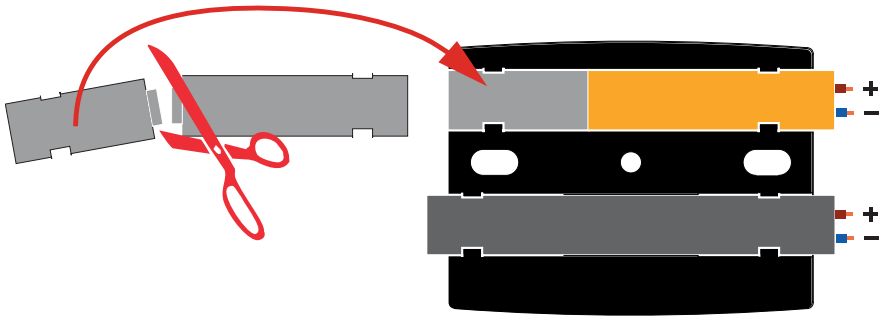
Connections: M8							
Article No.	M8 connection	Pin1	Pin2	Pin3	Pin4	Pin5	
BW3276	X1	ASi+	ASi+	ASi-	ASi-	–	
	X2	AUX+	AUX+	AUX-	AUX-	n.c.	

Connections: M8 snap-in cable socket						
Article No.	M8 connection	Pin1	Pin2	Pin3	Pin4	
BW3681	X1	ASi1+	AUX1-	ASi1-	AUX1+	

Connections: profile cable branch		
BWU3157		

Line termination with sealing profile

max. IP54



Accessories:

- **Protection caps for unused M12 sockets (article no. BW2368)**
- **Sealing profile IP67 (IDC plug), 60 mm (article no. BW3282)**