DOWNLOADED FROM WWW.SCATTS.CO.UK

Digital Modules ASi in IP20, 22,5 mm

Cost efficient solution in IP20

(Figure similar)

Figure	Type	Housing	Primary application (1)	Inputs digital	Outputs digital	Input voltage (sensor supply) (2)	Output voltage (actuator supply) (3)	ASi connection (4)	ASi address (5)	Article No.
	IP20, 22,5 mm x 50 mm, 4 x COMBICON	4 x COMBICON	decentralized control cabinet	4	4 x electronic	out of ASi	out of ASi	clamps	1 AB slave	**BWU2783**
	IP20, 22,5 mm x 50 mm, 4 x COMBICON	4 x COMBICON	decentralized control cabinet	4	4 x electronic	out of ASi	out of ASi	clamps	1 single slave	**BWU3272**
	IP20, 22,5 mm x 50 mm, 4 x COMBICON	3 x COMBICON	decentralized control cabinet	4	–	out of ASi	–	clamps	1 AB slave (S-0.A.7.0)	**BWU3747**
	IP20, 22,5 mm x 92 mm 4 x COMBICON	4 x COMBICON	control cabinet	4	4 x electronic	out of AUX	out of AUX	clamps	1 AB Slave	**BWU3559**
	IP20, 22,5 mm x 92 mm 4 x COMBICON	4 x COMBICON	control cabinet	4	4 x electronic	out of AUX	out of AUX	clamps	1 AB Slave	**BWU3842**
	IP20, 22,5 mm x 92 mm 4 x COMBICON	4 x COMBICON	control cabinet	4	3 x electronic	out of AUX	out of AUX	clamps	1 AB Slave	**BWU3733**
	IP20, 22,5 mm x 114 mm, 4 x COMBICON	3 x COMBICON	control cabinet	4	–	out of AUX	–	clamps	1 AB slave	**BWU2723**
	IP20, 22,5 mm x 114 mm, 4 x COMBICON	4 x COMBICON	control cabinet	4	4 x electronic	out of AUX	out of AUX	clamps	1 AB slave	**BWU1938**
	IP20, 22,5 mm x 114 mm, 4 x COMBICON	4 x COMBICON	control cabinet	4	4 x electronic	out of AUX	out of AUX	clamps	1 single slave	**BWU2759**
	IP20, 22,5 mm x 114 mm, 4 x COMBICON	4 x COMBICON	control cabinet	8	–	out of AUX	–	clamps	2 AB slaves	**BWU2721**
	IP20, 22,5 mm x 114 mm, 4 x COMBICON	4 x COMBICON	decentralized control cabinet	4	–	out of ASi	–	clamps	1 AB slave	**BWU3265**
	IP20, 22,5 mm x 114 mm, 4 x COMBICON	4 x COMBICON	decentralized control cabinet	4	–	out of AUX	–	clamps	1 AB slave	**BWU3266**

DOWNLOADED FROM WWW.SCATTS.CO.UK

DOWNLOADED FROM WWW.SCATTS.CO.UK

Digital Modules ASi in IP20, 22,5 mm

Figure	Type	Housing	Primary application (1)	Inputs digital	Outputs digital	Input voltage (sensor supply) (2)	Output voltage (actuator supply) (3)	ASi connection (4)	ASi address (5)	Article No.
	IP20, 22,5 mm x 114 mm, 6 x COMBICON	6 x COMBICON	control cabinet	4	3 x relay	out of ASi	–	clamps	1 AB slave	**BWU3878**
	IP20, 22,5 mm x 114 mm, 6 x COMBICON	6 x COMBICON	control cabinet	4	4 x relay	out of ASi	–	clamps	1 single slave	**BWU3435**
	IP20, 22,5 mm x 114 mm, 6 x COMBICON	6 x COMBICON	control cabinet	4	4 x relay	out of ASi	–	clamps	1 single slave (S-7.0.F.E)	**BWU3658**
	IP20, 22,5 mm x 114 mm, 6 x COMBICON	6 x COMBICON	control cabinet	4	4 x relay	out of ASi	–	clamps	1 AB slave	**BWU3549**
	IP20, 22,5 mm x 114 mm, 6 x COMBICON	6 x COMBICON	control cabinet	8	8 x electronic	out of ASi	out of AUX	clamps	2 AB slaves	**BWU3364**
	IP20, 22,5 mm x 114 mm, 6 x COMBICON	6 x COMBICON	control cabinet	8	8 x electronic	out of AUX	out of AUX	clamps	2 AB slaves	**BWU2490**
	IP20, 22,5 mm x 114 mm, 6 x COMBICON	6 x COMBICON	control cabinet	8	8 x electronic	out of AUX	out of AUX	clamps	2 single slaves	**BWU2800**
	IP20, 22,5 mm x 114 mm, 6 x COMBICON	6 x COMBICON	control cabinet	8 (NPN)	8 x electronic (NPN)	out of AUX	out of AUX	clamps	2 AB slaves	**BWU3359**
	IP20, 22,5 mm x 114 mm, 6 x COMBICON	6 x COMBICON	decentralized control cabinet	4	4 x electronic	out of ASi	out of AUX	clamps	1 AB slave	**BWU3267**
	IP20, 22,5 mm x 114 mm, 6 x COMBICON	6 x COMBICON	decentralized control cabinet	4	4 x electronic	out of AUX	out of AUX	clamps	1 AB slave	**BWU3268**
	IP20, 22,5 mm x 114 mm, 6 x COMBICON	6 x COMBICON	decentralized control cabinet	4	4 x electronic	out of ASi	out of AUX	clamps	1 single slave	**BWU3754**

(1) **Primary Application**
Control cabinet: Cost-optimized modules whereby the supply voltage for the sensors and actuators is connected via additional patch terminals. Optimal application in the main control cabinet.
Decentralized control cabinet: Ideal for use in decentralized control cabinets. 3-wire sensors or actuators can be connected directly to terminals in the module without additional patch terminals or the module has an extremely flat design.

(2) I**nput voltage (sensor supply):** inputs are supplied by ASi or by AUX (auxiliary 24 V power). If supplied by ASi, inputs shall not be connected to earth or to external potential.

(3) **Output voltage (actuator supply):** outputs are supplied by ASi or by AUX (auxiliary 24 V power). If supplied by ASi, outputs shall not be connected to earth or to external potential

(4) **ASi connection:** the connection to ASi as well to AUX (auxiliary 24 V power) is made via yellow resp. black ASi profile cable with piercing technology or via M12 socket (in IP20 via clamps).

(5) **ASi address:** 1 AB slave (max. 62 AB slaves/ASi network), 2 AB slaves (max. 31 modules with 2 AB slaves), single slaves (max. 31 single slaves/ASi network), mixed use allowed.
For modules with two slaves the second slave is turned off as long as the first slave is addressed to address "0".
Upon request, slaves are available with specific ASi slave profiles.

DOWNLOADED FROM WWW.SCATTS.CO.UK

DOWNLOADED FROM WWW.SCATTS.CO.UK

Digital Modules ASi in IP20, 22,5 mm

Article no.		BWU3272	BWU2783	BWU3747
General data				
Device type		input / output		input
Connection				
ASi / AUX connection		COMBICON plug		
Periphery connection		COMBICON plug		
Primary application		decentralized control cabinet		
Length of connector cable		I/O: max. 15 m (1)		
ASi				
Profile		S-7.0.E, ID1=F (default)	S-7.A.7, ID1=7 (fixed)	S-0.A.0, ID1=7 (default)
Address		1 single slave	1 AB slave	
Required Master profile		≥M0	≥M4	≥M3
Since ASi specification		2	3.0	2.1
Operating voltage		30 V (18 … 31.6 V)		
Max. current consumption		165 mA		
Max. current consumption without sensor/ actuator supply		45 mA		
Input				
Number		4		
Power supply		out of ASi		
Sensor supply		short-circuit and overload protected according to EN 61131-2		
Power supply of attached sensors	up to +40 °C	120 mA, ∑ (In/Out) 120 mA (2)		120 mA, ∑ (In) 120 mA (4)
	at +55 °C	20 mA, ∑ (In/Out) 20 mA (2)		20 mA, ∑ (In) 20 mA (4)
Switching threshold		U<5 V (low) U>15 V (high)		
Output				
Number		4 x electronic		–
Power supply		out of ASi		–
Actuator supply		short-circuit and overload protected according to EN 61131		–
Max. output current	up to +40 °C	120 mA per output, ∑ (In/Out) 120 mA (2)		–
	at +55 °C	20 mA, ∑ (In/Out) 20 mA (2)		–
Display				
LED ASI (green)		an: ASi voltage on, flashing: ASi voltage on, but peripheral fault (3) or address 0 off: no ASi Voltage		
LED FLT/FAULT (red)		an: slave address 0 or slave offline flashing: peripheral fault (3) off: slave online		
LEDs I1 ... In (yellow)		state of inputs I1 ... I4		
LEDs O1 ... On (yellow)		state of outputs O1 ... O4		–

DOWNLOADED FROM WWW.SCATTS.CO.UK

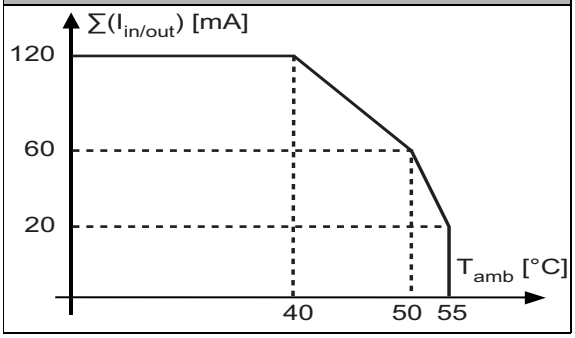
DOWNLOADED FROM WWW.SCATTS.CO.UK

Article no.	BWU3272	BWU2783	BWU3747
Environment			
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131 EN 60529		
Operating altitude	max. 2000 m		
Ambient temperature	-25 °C ... +40 °C (up to max. +55 °C) (2)		
	no condensation permitted		
Storage temperature	-25 °C … +85 °C		
Housing	plastic, for DIN rail mounting		
Pollution Degree	2		
Protection category	IP20		
Tolerable loading referring to humidity	according to EN 61131-2		
Voltage of insulation	≥500 V		
Weight	65 g		
Dimensions (W / H / D in mm)	22,5 / 99 / 50,5		

(1) Loop resistance ≤150 Ω

(2)

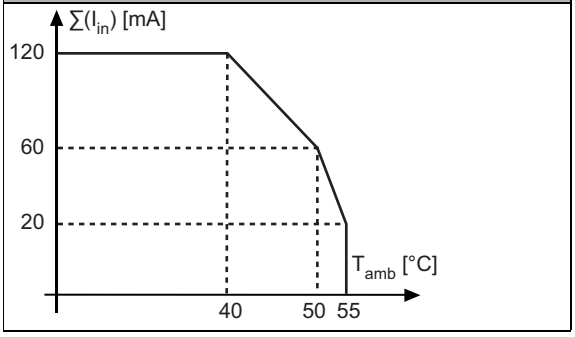
BWU2783, BWU3272
Derating total current of inputs + outputs



(3) see table „Peripheral fault indication“

(4)

BWU3747
Derating total current of inputs



DOWNLOADED FROM WWW.SCATTS.CO.UK

DOWNLOADED FROM WWW.SCATTS.CO.UK

Digital Modules ASi in IP20, 22,5 mm

Article no.		BWU3265	BWU3266	BWU3268	BWU3267	BWU3754
General data						
Device type		input		input / output		
Connection						
ASi / AUX Connection		COMBICON plug				
Periphery connection		COMBICON plug				
Primary application		decentralized control cabinet				
Length of connector cable		I/O: unlimited (1)				
ASi						
Profile		S-7.A.E, ID1=7 (default)		S-7.A.7, ID1=7 (fixed)		S-7.0.E, ID1=F (default)
Address		1 AB slave				1 single slave
Required Master profile		≥M3		≥M4		≥M0
Since ASi specification		2.1		3.0		2
Operating voltage		30 V (18 … 31.6 V)				
Max. current consumption		165 mA	35 mA		165 mA	
Max. current consumption without sensor/ actuator supply		45 mA	35 mA		45 mA	
AUX						
Voltage		–	24 V (18 … 30 V)			
Max. current consumption		–	1,2 A	4,2 A	3 A	
Input						
Number		4				
Power supply		out of ASi	out of AUX		out of ASi	
Sensor supply		short-circuit and overload protected according to EN 61131-2				
power supply of attached sensors	up to +40 °C	120 mA (2)	1200 mA permanent operation (5)		120 mA (2)	
	at +55 °C	90 mA (2)	900 mA permanent operation (5)		90 mA (2)	
	at +70 °C	60 mA (2)	600 mA permanent operation (5)		60 mA (2)	
Switching threshold		U<5 V (low) U>15 V (high)				
Output						
Number		–		4 x electronic		
Power supply		–		out of AUX		
Actuator supply		short-circuit and overload protected according to EN 61131-2				
Max. output current	up to +50 °C	–		1 A per output, ∑ (Out) 3,0 A (6)		
	at +55 °C			1 A per output, ∑ (Out) 2,5 A (6)		
	at +70 °C			1 A per output, ∑ (Out) 1,0 A (6)		
Display						
LED ASI (green)		an: ASi voltage on, flashing: ASi voltage on, but peripheral fault (3) or address 0 off: no ASi Voltage				
LED FLT/FAULT (red)		an: slave address 0 or slave offline flashing: peripheral fault (3) off: slave online				
LEDs I1 ... In (yellow)		state of inputs I1 ... I4				
LEDs O1 ... On (yellow)		–		state of outputs O1 ... O4		
LED AUX (green)		–	on: 24 V_{DC} AUX off: no 24 V_{DC} AUX			

DOWNLOADED FROM WWW.SCATTS.CO.UK

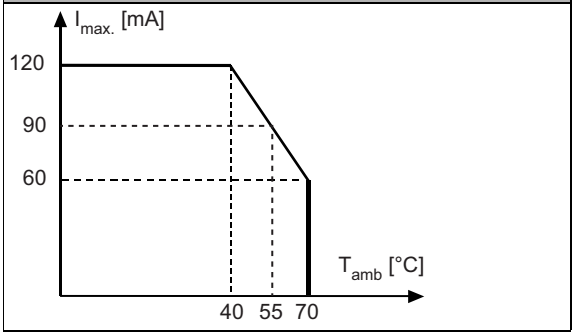
DOWNLOADED FROM WWW.SCATTS.CO.UK

Article no.	BWU3265	BWU3266	BWU3268	BWU3267	BWU3754
Environment					
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131 EN 60529				
Operating altitude	max. 2000 m				
Ambient temperature	-25 °C … +55 °C (up to max. +70 °C) (2) (4)	-25 °C … +55 °C (up to max. +70 °C) (4) (5) (6)		-25 °C … +55 °C (up to max. +70 °C) (2) (4) (6)	
	no condensation permitted				
Storage temperature	-25 °C … +85 °C (2) (3)				
Housing	plastic, for DIN rail mounting				
Pollution Degree	2				
Protection category	IP20				
Tolerable loading referring to humidity	according to EN 61131-2				
Voltage of insulation	≥500 V				
Weight	120 g				
Dimensions (W / H / D in mm)	22,5 / 99 / 114				

(1) Loop resistance ≤150 Ω

(2)

BWU3265, BWU3267, BWU3754
Derating power supply of attached sensors

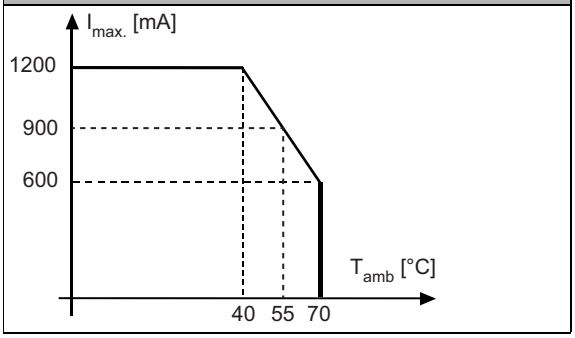


(3) see table „peripheral fault indication“

(4) Maximum ambient operating temperature +55 °C according UL certificate for the use in the USA and Canada.

(5)

BWU3266, BWU3268
Derating power supply of attached sensors

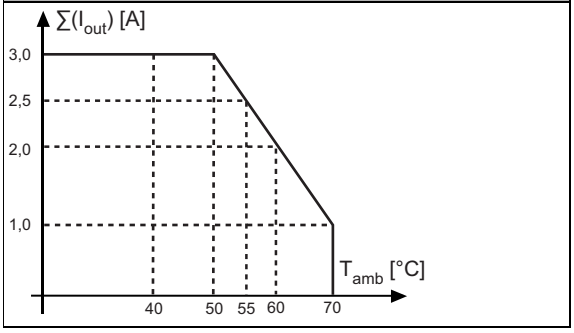


DOWNLOADED FROM WWW.SCATTS.CO.UK

DOWNLOADED FROM WWW.SCATTS.CO.UK

(6)

BWU3267, BWU3268, BWU3754
Derating total current of outputs



Article no.		BWU2723	BWU3842	BWU1938	BWU3559	BWU3733	BWU2759
General data							
Device type		input	inputs / output				
Connection							
ASi / AUX Connection		COMBICON plug					
Periphery connection		COMBICON plug					
Primary application		control cabinet					
Length of connector cable		I/O: unlimited (1)					
ASi							
Profile		S-7.A.E, ID1=7 (default)	S-7.A.7, ID1=7 (fixed)			S-7.A.0, ID1=7 (default)	S-7.0.E, ID1=F (default)
Address		1 AB slave					1 single slave
Required Master profile		≥M3	≥M4			≥M3	≥M0
Since ASi specification		2.1	3.0			2.1	2
Operating voltage		30 V (18 … 31.6 V)					
Max. current consumption		35 mA					
Max. current consumption without sensor/ actuator supply		35 mA					
AUX							
Voltage		24 V (18 … 30 V)					
Max. current consumption		1,2 A	8 A	4 A			
Input							
Number		4					
Power supply		out of AUX					
Sensor supply		short-circuit and overload protected according to EN 61131					
power supply of attached sensors	up to +40 °C	1200 mA permanent operation (2)	< 500 mA	1200 mA permanent operation (2)			
	at +55 °C	900 mA permanent operation (2)		900 mA permanent operation (2)			
	at +70 °C	600 mA permanent operation (2)		600 mA permanent operation (2)			
Switching threshold		U<5 V (low) U>15 V (high)					

DOWNLOADED FROM WWW.SCATTS.CO.UK

DOWNLOADED FROM WWW.SCATTS.CO.UK

Article no.		BWU2723	BWU3842	BWU1938	BWU3559	BWU3733	BWU2759
Output							
Number		–	4 x electronic			3 x electronic	4 x electronic
Power supply		–	out of AUX				
Actuator supply		short-circuit and overload protected according to EN 61131					
Max. output current	up to +50 °C	–	2 A per output, ∑ (In/Out) 8 A (5)	1 A per output, ∑ (Out) 3,0 A (6)			
	at +55 °C		2 A per output, ∑ (In/Out) 4 A (5)	1 A per output, ∑ (Out) 2,5 A (6)			
	at +70 °C		2 A per output, ∑ (In/Out) 2 A (5)	1 A per output, ∑ (Out) 1,0 A (6)			
Display							
LED ASI (green)		an: ASi voltage on, flashing: ASi voltage on, but peripheral fault (3) or address 0 off: no ASi Voltage					
LED FLT/FAULT (red)		an: slave address 0 or slave offline flashing: peripheral fault (3) off: slave online					
LEDs I1 ... In (yellow)		state of inputs I1 ... I4					
LEDs O1 ... On (yellow)		–	state of outputs O1 ... O4				
LED AUX (green)		on: 24 V_{DC} AUX off: no 24 V_{DC} AUX					
Environment							
Applied standards		EN 61000-6-2 EN 61000-6-3 EN 61131 EN 60529					
Operating altitude		max. 2000 m					
Ambient temperature		-25 °C … +55 °C (up to max. +70 °C) (2) (4)	-25 °C … +55 °C (up to max. +70 °C) (2) (4) (5) (6)				
		no condensation permitted					
Storage temperature		-25 °C … +85 °C					
Housing		plastic, for DIN rail mounting					
Pollution Degree		2					
Protection category		IP20					
Tolerable loading referring to humidity		according to EN 61131-2					
Voltage of insulation		≥500 V					
Weight		120 g					
Dimensions (W / H / D in mm)		22,5 / 99 / 114	22,5 / 99 / 92	22,5 / 99 / 114	22,5 / 99 / 92		22,5 / 99 / 114

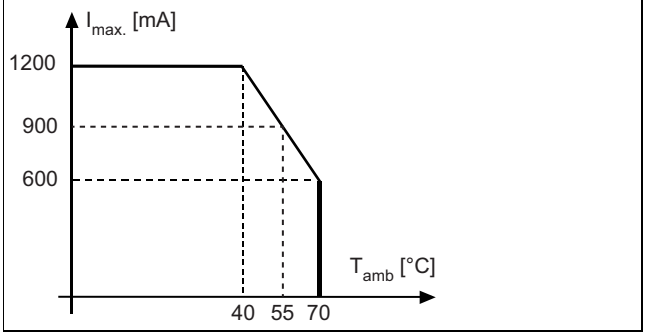
(1) Loop resistance ≤150 Ω

DOWNLOADED FROM WWW.SCATTS.CO.UK

DOWNLOADED FROM WWW.SCATTS.CO.UK

(2)

BWU1938, BWU2723, BWU2759, BWU3559, BWU3733
Derating power supply of attached sensors

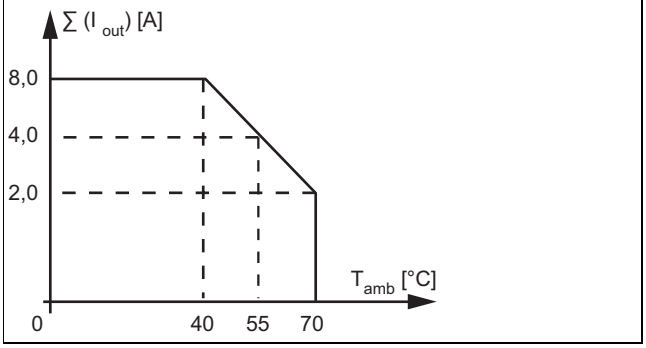


(3) see table „peripheral fault indication“

(4) Maximum ambient operating temperature +55 °C according UL certificate for the use in the USA and Canada.

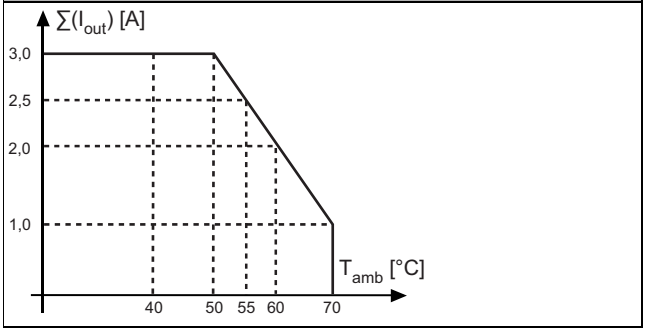
(5)

BWU3842
Derating total current of outputs



(6)

BWU1938, BWU2759, BWU3559, BWU3733
Derating total current of outputs



Article no.	BWU3364	BWU2490	BWU2800	BWU2721	BWU3359
General data					
Device type	input / output			input	input / output
Connection					
ASi / AUX connection	COMBICON plug				
Periphery connection	COMBICON plug				
Primary application	control cabinet				
Length of connector cable	I/O: unlimited (1)				

DOWNLOADED FROM WWW.SCATTS.CO.UK

DOWNLOADED FROM WWW.SCATTS.CO.UK

Digital Modules ASi in IP20, 22,5 mm

Article no.		BWU3364	BWU2490	BWU2800	BWU2721	BWU3359
ASi						
Profile		slave 1: S-7.A.7, ID1=7 (fixed), slave 2: S-7.A.7, ID1=6 (default)		slave 1: S-7.0.E, ID1=F (default) slave 2: S-7.0.E, ID1=E (default)	slave 1: S-7.A.E, ID1=7 (default) slave 2: S-7.A.E, ID1=6 (default)	slave 1: S-7.A.7, ID1=7 (fixed), slave 2: S-7.A.7, ID1=6 (default)
Address		2 AB slaves		2 single slaves	2 AB slaves	
Required Master profile		≥M4		≥M0	≥M3	≥M4
Since ASi specification		3.0		2.0	2.1	3.0
Operating voltage		30 V (18 … 31.6 V)				
Max. current consumption		320 mA	60 mA			
Max. current consumption without sensor/ actuator supply		60 mA	60 mA			
AUX						
Voltage		24 V (18 … 30 V)				
Max. current consumption		8 A			1,2 A	8 A
Input						
Number		8				8 (NPN)
Power supply		out of ASi	out of AUX			
Sensor supply		short-circuit and overload protected according to EN 61131				
Power supply of attached sensors	up to +40 °C	260 mA (2)	900 mA permanent operation (5)		1200 mA permanent operation (9)	
	at +55 °C	130 mA (2)	700 mA permanent operation (5)		900 mA permanent operation (9)	
	at +70 °C	–	600 mA permanent operation (5)		600 mA permanent operation (9)	
Switching threshold		U<5 V (low) U>15 V (high)				ground I+ -U<5 V (low) -U>15 V (high)
Output						
Number		8 x electronic			–	8 x electronic (NPN)
Power supply		out of AUX			–	out of AUX
Actuator supply		short-circuit and overload protected according to EN 61131				
Max. output current	up to +40 °C	1 A per output, ∑ (O1 ... O4) 3 A + ∑ (O5 ... O8) 3 A (3)	1 A per output, ∑ (O1 ... O4) 3 A + ∑ (O5 ... O8) 3 A (6)		–	0,5 A per output, ∑ (Out) 4 A (10)
	at +55 °C	1 A per output, ∑ (O1 ... O4) 2 A + ∑ (O5 ... O8) 2 A (3)				
	at +70 °C	–	1 A per output, ∑ (O1 ... O8) 1 A (6)			0,5 A per output, ∑ (Out) 0,5 A (10)
Display						
LED ASI/FLT 1 (red/green)		green: slave online red: slave offline yellow/red flashing: address 0				
LED ASI/FLT 2 (red/green)		green: slave online red: slave offline yellow/red flashing: address 0 red/green flashing: peripheral fault (4) red flashing: slave 2 is switched off, because slave 1 is offline				
LEDs I1 ... In (yellow)		state of inputs I1 ... I8				
LEDs O1 ... On (yellow)		state of outputs O1 ... O8			–	state of outputs O1 ... O8
LED AUX (green)		on: 24 V_{DC} AUX off: no 24 V_{DC} AUX				

DOWNLOADED FROM WWW.SCATTS.CO.UK

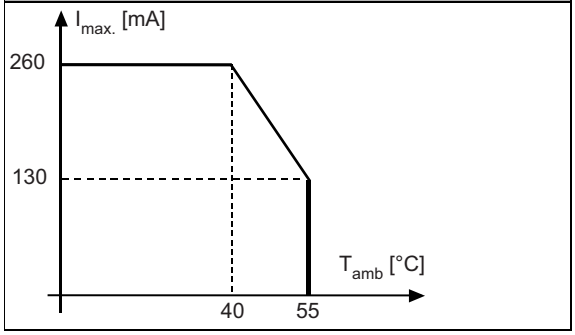
DOWNLOADED FROM WWW.SCATTS.CO.UK

Article no.	BWU3364	BWU2490	BWU2800	BWU2721	BWU3359
Environment					
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131 EN 60529				
Operating altitude	max. 2000 m				
Ambient temperature	30 °C … +55 °C (2) (3)	-30 °C … +55 °C (up to max. +70 °C) (5) (6) (7) (8)		-30 °C ... +55 °C (up to max. +70 °C) (7) (9) (10)	
	no condensation permitted				
Storage temperature	-25 °C … +85 °C				
Housing	plastic, for DIN rail mounting				
Pollution Degree	2				
Protection category	IP20				
Tolerable loading referring to humidity	according to EN 61131-2				
Voltage of insulation	≥500 V				
Weight	120 g				
Dimensions (W / H / D in mm)	22,5 / 99 / 114				

(1) Loop resistance ≤150 Ω

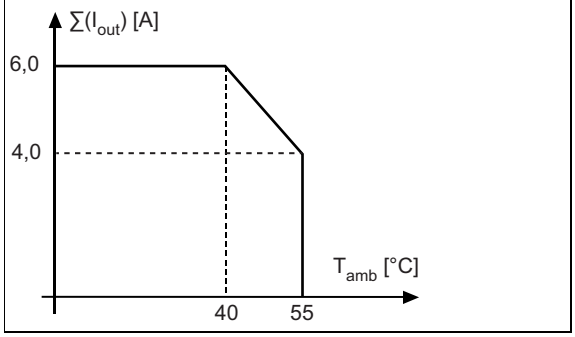
(2)

BWU3364
Derating power supply of attached sensors



(3)

BWU3364
Derating total current of outputs



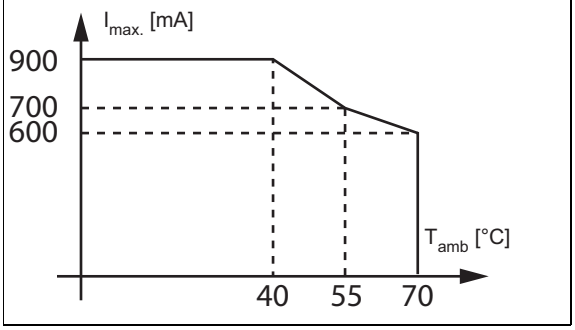
(4) see table „peripheral fault indication“

DOWNLOADED FROM WWW.SCATTS.CO.UK

DOWNLOADED FROM WWW.SCATTS.CO.UK

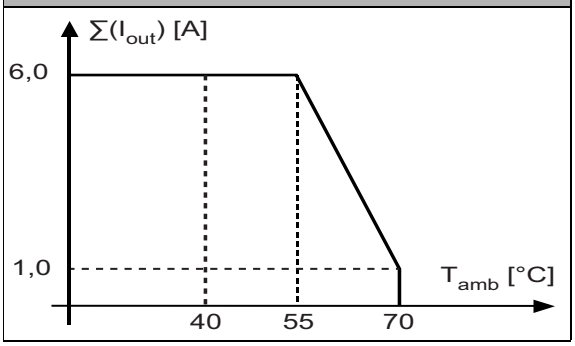
(5)

BWU2490, BWU2800
Derating power supply of attached sensors



(6)

BWU2490, BWU2800
Derating total current of outputs

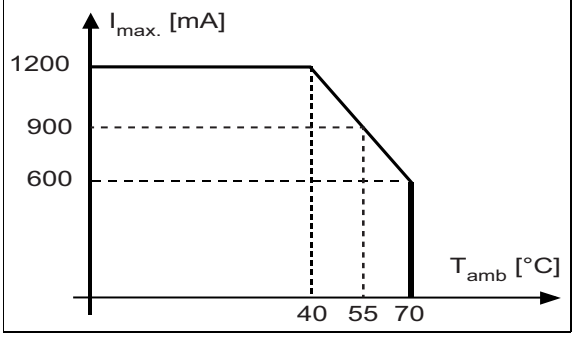


(7) Maximum ambient operating temperature +55 °C according UL certificate for the use in the USA and Canada.

(8) Temperature range up to -30°C from Ident.No. ≥16283 (BWU2490); Ident.No. ≥16299 (BWU2800).

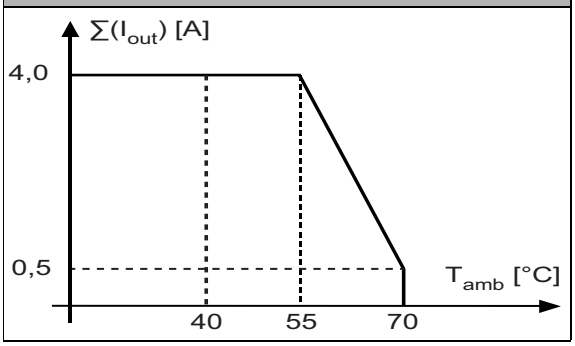
(9)

BWU2721, BWU3359
Derating power supply of attached sensors



(10)

BWU3359
Derating total current of outputs



DOWNLOADED FROM WWW.SCATTS.CO.UK

DOWNLOADED FROM WWW.SCATTS.CO.UK

Digital Modules ASi in IP20, 22,5 mm

Article no.		BWU3878	BWU3435	BWU3658	BWU3549
General data					
Device type		input / output			
Connection					
ASi / AUX Connection		COMBICON plug			
Periphery connection		COMBICON plug			
Primary application		control cabinet			
Length of connector cable		I/O: unlimited (1)			
ASi					
Profile		S.7.A.7.0	S-7.F.E, ID1=F (default)	S-7.0.E, ID1=F (default)	S-7.A.7, ID=7(fixed)
Address		1 AB slave	1 single slave		1 AB slave
Required Master profile		≥M0			≥M4
Since ASi specification		2			3
Operating voltage		30 V (26,5 … 31.6 V)			
Max. current consumption		200 mA			165 mA
Max. current consumption without sensor/ actuator supply		45 mA			
Input					
Number		4			
Power supply		out of ASi			
Sensor supply		short-circuit and overload protected according to EN 61131			
Power supply of attached sensors	up to +40 °C	120 mA (2)			120 mA (5)
	at +55 °C	90 mA (2)			90 mA (5)
	at +70 °C	60 mA (2)			60 mA (5)
Switching threshold		U<5 V (low) U>15 V (high)			
Output					
Number		3 x relay outputs, normally open, 230 VAC/2A/AC-14, 30 VDC/2A/DC-13 ∑ (Out) 8 A	4 x relay outputs, normally open, 230 VAC/2A/AC-14, 30 VDC/2A/DC-13 ∑ (Out) 8 A		
Relay control		out of ASi			
Max. output current		–			
Display					
LED ASI (green)		an: ASi voltage on, flashing: ASi voltage on, but peripheral fault (3) or address 0 off: no ASi Voltage			
LED FLT/FAULT (red)		an: slave address 0 or slave offline flashing: peripheral fault (3) off: slave online			
LEDs I1 ... In (yellow)		state of inputs I1 ... I4			
LEDs O1 ... On (yellow)		state of outputs O1 ... O3	state of outputs O1 ... O4		

DOWNLOADED FROM WWW.SCATTS.CO.UK

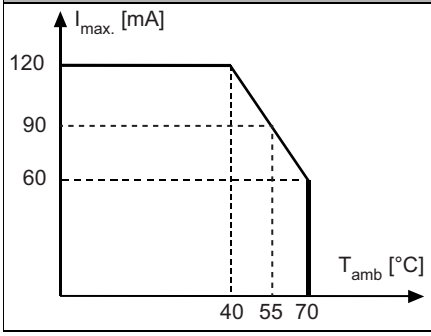
DOWNLOADED FROM WWW.SCATTS.CO.UK

Article no.	BWU3878	BWU3435	BWU3658	BWU3549
Environment				
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131 EN 60529			
Operating altitude	max. 2000 m			
Ambient temperature	-25 °C … +55 °C (up to max. +70 °C) (2) (4)			-25 °C … +55 °C (up to max. +70 °C) (4) (5)
	no condensation permitted			
Storage temperature	-25 °C … +85 °C			
Housing	plastic, for DIN rail mounting			
Pollution Degree	2			
Protection category	IP20			
Tolerable loading referring to humidity	according to EN 61131-2			
Voltage of insulation	≥500 V			
Weight	120 g			
Dimensions (W / H / D in mm)	22,5 / 99 / 114			

(1) Loop resistance ≤150 Ω

(2)

BWU3435, BWU3658, BWU3878
Derating power supply of attached sensors

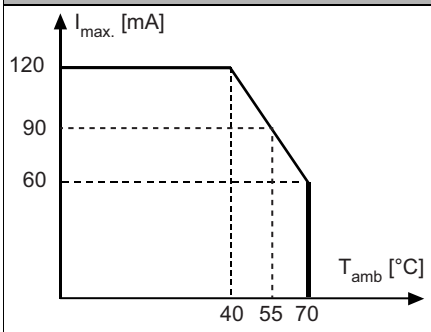


(3) **see table "Peripheral fault indication"**

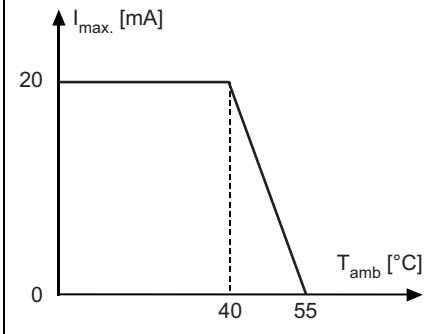
(4) Maximum ambient operating temperature +55 °C according UL certificate for the use in the USA and Canada.

(5)

BWU3549, Ident.No. ≥ 16906
Derating power supply of attached sensors



BWU3549, Ident.No. <16906
Derating power supply of attached sensors



Up to +40 °C: 20 mA
At ≥ +55 °C: 0 mA

DOWNLOADED FROM WWW.SCATTS.CO.UK

DOWNLOADED FROM WWW.SCATTS.CO.UK

Wiring rules

	Push-in terminals
General	
Nominal cross section	2,5 mm^2
Conductor cross section	
Conductor cross section solid	0,2 ... 2,5 mm^2
Conductor cross section flexible	0,2 ... 2,5 mm^2
Conductor cross section flexible, with ferrule	without plastic sleeve: 0,2 ... 2,5 mm^2
	with plastic sleeve: 0,25 ... 2,5 mm^2
2 conductors with same cross section, stranded, with TWIN ferrules	without plastic sleeve: 0,5 ... 1,5 mm^2
AWG	24 ... 14
Stripped insulation length	10 mm

UL-specifications (UL508)	
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.
In general	UL mark does not provide UL certification for any functional safety rating or aspects of the above devices.

Article no.	Peripheral fault indication	
	Overload sensor supply	AUX voltage missing
BWU1938	–	●
BWU2490	–	●
BWU2721	–	●
BWU2723	–	●
BWU2759	–	●
BWU2783	●	–
BWU2800	–	●
BWU3265	●	–
BWU3266	●	●
BWU3267	●	●
BWU3268	●	●
BWU3272	●	–
BWU3359	–	●
BWU3364	●	●
BWU3435	●	–
BWU3549	●	–
BWU3559	–	●
BWU3658	●	–
BWU3733	–	●
BWU3747	●	–
BWU3754	●	●
BWU3842	–	●
BWU3878	●	–

DOWNLOADED FROM WWW.SCATTS.CO.UK

DOWNLOADED FROM WWW.SCATTS.CO.UK

Programming	Bit setting			
	D3	D2	D1	D0
	Input			
BWU1938 / BWU2723 / BWU2759 / BWU2783 / BWU3265 / BWU3266 / BWU3267 / BWU3268 / BWU3272 / BWU3435 / BWU3549 / BWU3559 / BWU3658 / BWU3733 / BWU3747 / BWU3754 / BWU3842 / BWU3878	I4	I3	I2	I1
BWU2490 / BWU2721 / BWU2800 / BWU3359 / BWU3364	slave 1: I4	slave 1: I3	slave 1: I2	slave 1: I1
	slave 2: I8	slave 2: I7	slave 2: I6	slave 2: I5
	output			
BWU1938 / BWU2759 / BWU2783 / BWU3267 / BWU3268 / BWU3272 / BWU3435 / BWU3549 / BWU3559 / BWU3658 / BWU3754 / BWU3842	O4	O3	O2	O1
BWU3373, BWU3878	–	O3	O2	O1
BWU2490 / BWU2800 / BWU3359 / BWU3364	slave 1: O4	slave 1: O3	slave 1: O2	slave 1: O1
	slave 2: O8	slave 2: O7	slave 2: O6	slave 2: O5

Programming	Bit setting			
	parameter bit			
	P3	P2	P1	P0
BWU3364 / BWU2723 / BWU2721 / BWU3265 / BWU3266	not used	0 = on / 1 = off (synchronous I/O mode)	0 = on / 1 = off (data input filter 128 µs)	0 = off / 1 = on (peripheral fault, if AUX voltage missing)
BWU1938 / BWU2759 / BWU2783 / BWU3267 / BWU3268 / BWU3272 / BWU3435 / BWU3549 / BWU3559 /BWU3658 / BWU3733 / BWU3754 / BWU3842 / BWU3878				0 = off / 1 = on (watchdog)
BWU2490 / BWU2800 / BWU3359 / BWU3747				not used, watchdog always on

Connections

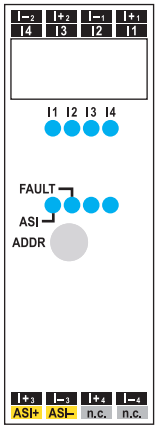
Name	Explanation
Ix	digital input x
Ox	digital output x
Ox3, Ox4	relay output x
I+, I-, $I+_n$, $I-_n$	sensor supply
$O-_n$	GND for outputs (PNP)
$O+_n$	GND for outputs (NPN)
AUX $+_{ext.in}$	power supply, out of external voltage, positive pole (AUX, actuator supply)
AUX $-_{ext.in}$	power supply, out of external voltage, negative pole (AUX, actuator supply)
ASi +, ASi -	connection to ASi bus
ADDR	connection for ASi addressing device
n.c. (not connected)	not connected

DOWNLOADED FROM WWW.SCATTS.CO.UK

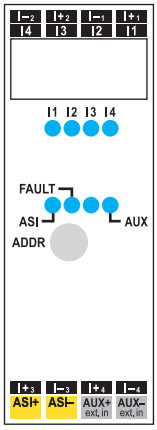
DOWNLOADED FROM WWW.SCATTS.CO.UK

Connections

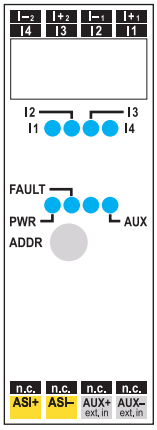
BWU3265



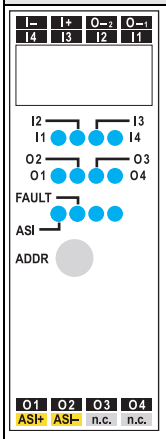
BWU3266



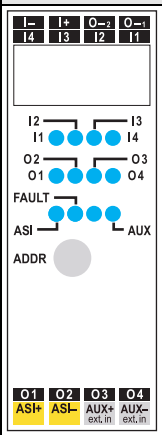
BWU2723



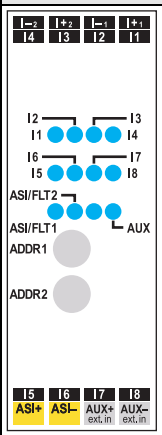
BWU2783 / BWU3272



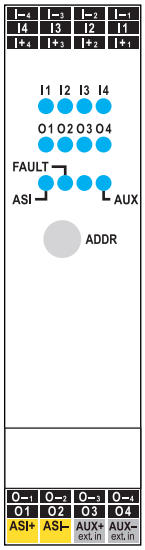
BWU1938 / BWU2759 / BWU3559 / BWU3842



BWU2721



BWU3267 / BWU3268



BWU2490 / BWU2800 / BWU3364

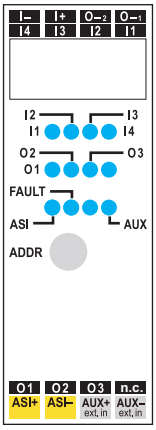
BWU3359

DOWNLOADED FROM WWW.SCATTS.CO.UK

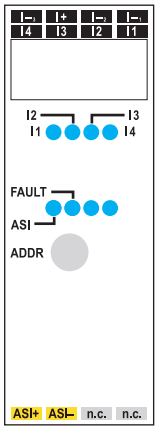
DOWNLOADED FROM WWW.SCATTS.CO.UK

Connections

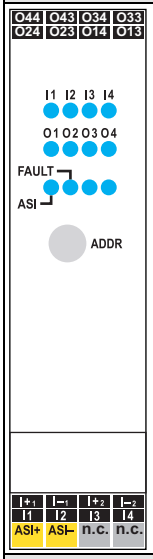
BWU3733



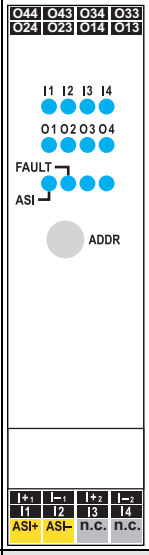
BWU3747



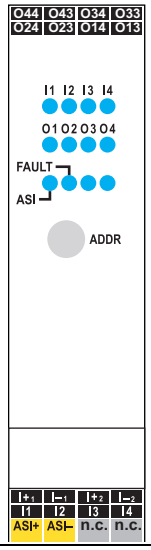
BWU3435



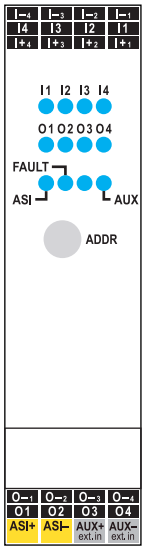
BWU3549



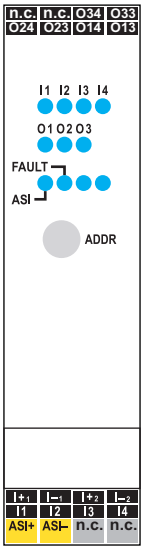
BWU3658



BWU3754



BWU3878

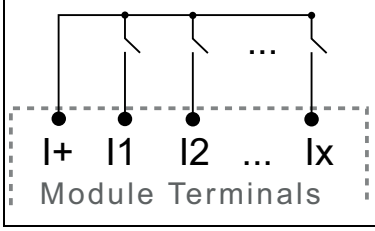


DOWNLOADED FROM WWW.SCATTS.CO.UK

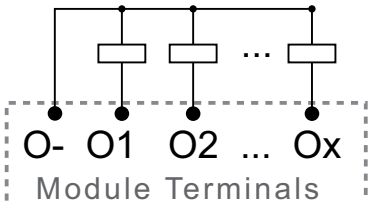
DOWNLOADED FROM WWW.SCATTS.CO.UK

Power supply PNP

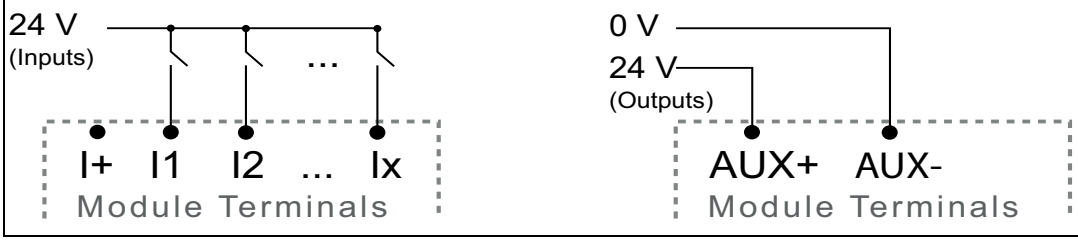
Input
BWU1938 / BWU2490 / BWU2721 / BWU2723 / BWU2759 / BWU2783 / BWU2800 / BWU3265 / BWU3266 / BWU3267 / BWU3268 / BWU3272 / BWU3364 / BWU3549 / BWU3559 / BWU3658 / BWU3733 / BWU3747 / BWU3754 / BWU3842 / BWU3878



Output
BWU1938 / BWU2490 / BWU2759 / BWU2783 / BWU2800 / BWU3267 / BWU3268 / BWU3272 / BWU3364 / BWU3559 / BWU3733 / BWU3754 / BWU3842

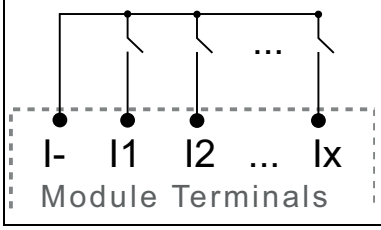


Separate power supply (recommended)
BWU1938 / BWU2490 / BWU2759 / BWU2800 / BWU3559 / BWU3733 / BWU3842

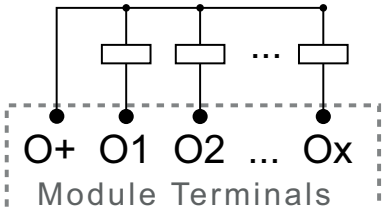


Power supply NPN

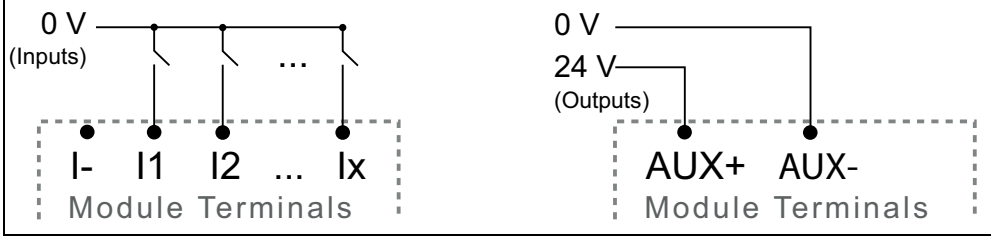
Input
BWU3359



Output
BWU3359



Separate power supply (recommended)
BWU3359

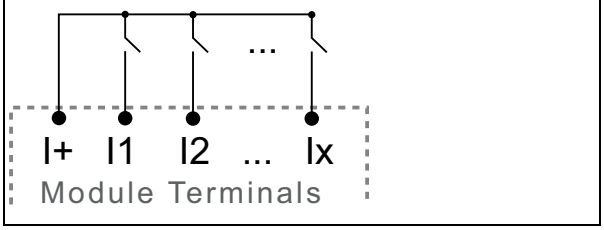


DOWNLOADED FROM WWW.SCATTS.CO.UK

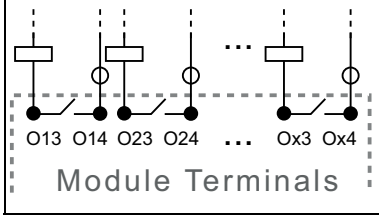
DOWNLOADED FROM WWW.SCATTS.CO.UK

Connection relay output

Input (PNP)
BWU3435



Relay output
BWU3549 / BWU3435 / BWU3658 / BWU3878



DOWNLOADED FROM WWW.SCATTS.CO.UK

SCATTERGOOD & JOHNSON LTD
ELECTRICAL ENGINEERING & FLUID CONTROL DISTRIBUTORS
Est.1899

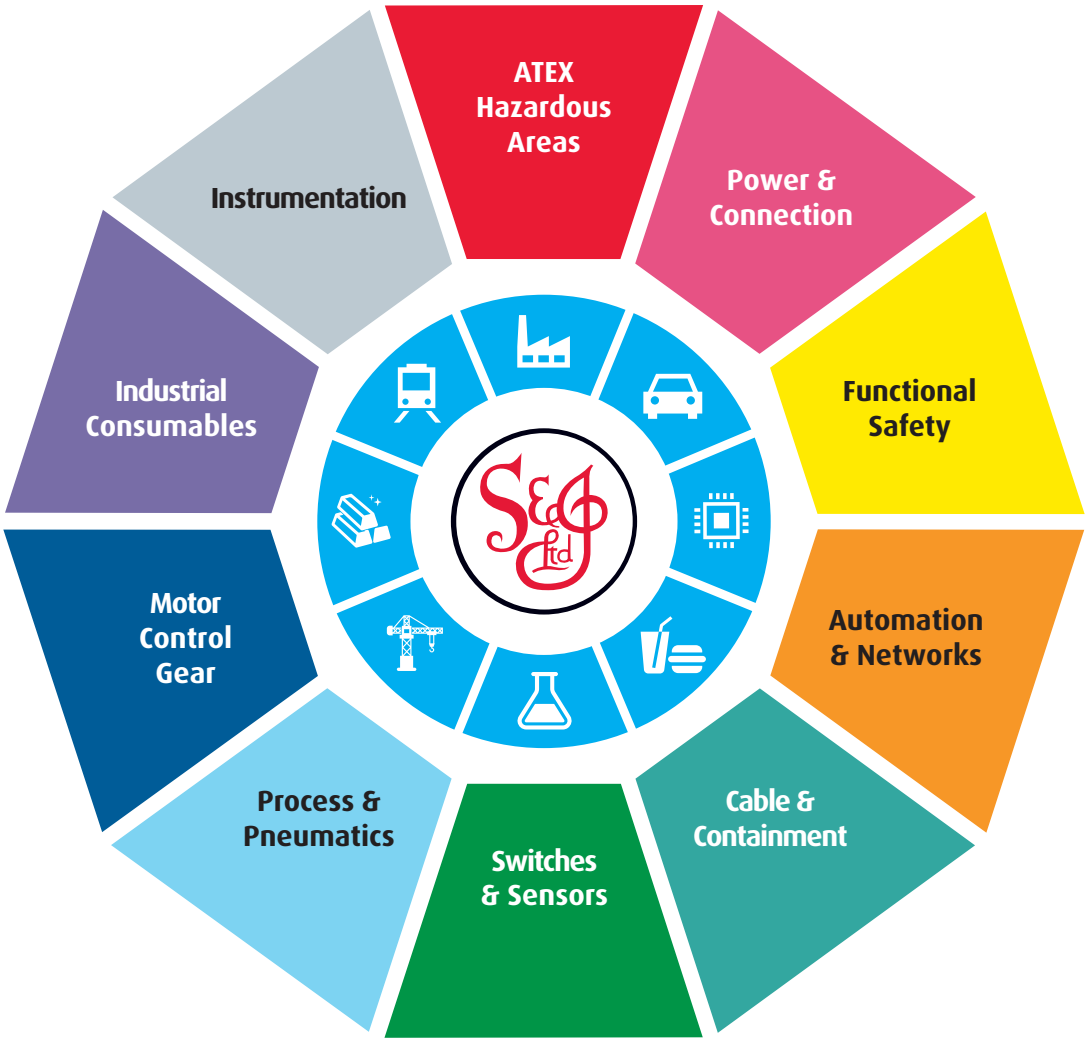
At Scattergood & Johnson Ltd, we pride ourselves on being a technical distributor to specialist industries.

Working with a range of quality product suppliers across a number of specialist markets, we are not your average 'box shifter' - we are your technical and supply chain partner.

We fully support every product we sell - for free! Our internal team and external sales engineers can answer any product or application question, no matter the complexity.

Backing up this technical ability is a range of 50,000+ products available from stock for nationwide next day delivery (same day if required!), or you can collect what you need from any of our trade counters around the UK.

Select your specialist interest below to learn more about how we can help.



Online, In Branch and On the Road - Scattergood & Johnson Ltd, there when you need us.

www.scatts.co.uk