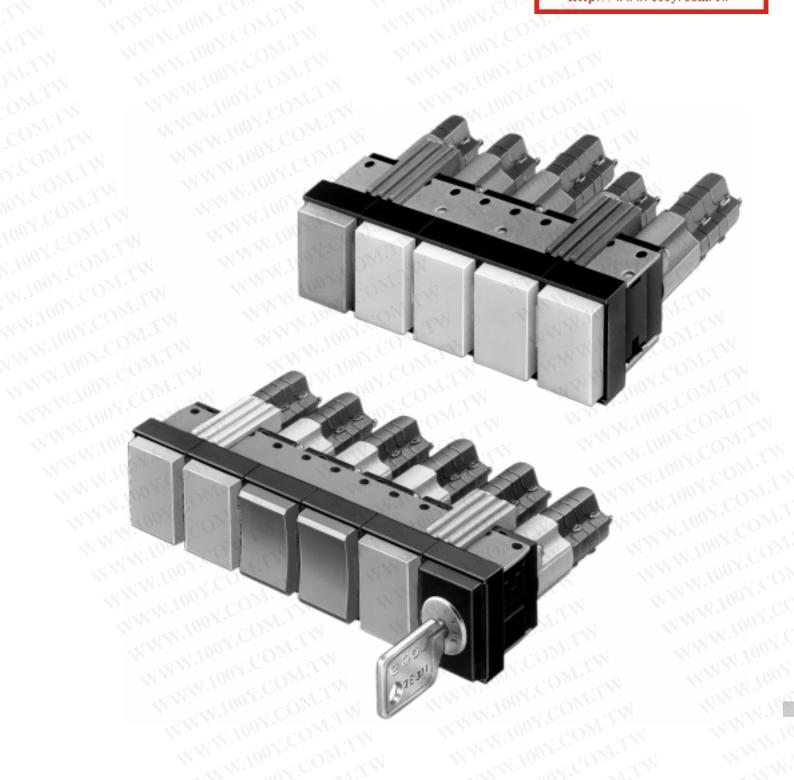
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Switches and Indicators

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Series 30

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NW.100 Y.COM.	IN MANN TOOK COW IN MA	
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The interlocking switch assembly is a combination of indicators, pushbuttons and switches in an optional sequence of up to 12 "places" in a row. It is also possible to construct interlocking switch assemblies with only one kind of signalling and control units.

The mutual interaction (\bullet) , (Δ) or non-interaction (\bigcirc) is determined by the choice of the selection of the interlocking system.

Each "place" is made up of an actuator (plus lens) and a switching element.

Within one interlocking switch assembly, individual places can, by choice, be excluded from the mutual interaction. For this, the same actuators are used as in systems without interlocking (No. 30-500, see page 580).

For three interlocking systems there are some other variants. In these, with the aid of an additional "place", the mutual interaction can be centrally released and/or blocked. For better differentiation, this function has been called interlocking system option. Basically, it only needs to consist of the actuator (plus lens or keylock actuator), but can be coupled with any desired switching element. For this "place" therefore, the number should be specified of the interlocking system, the interlocking system option and the actuator element, with the exception of any possible switching element.

Procedure when selecting functions amongst indicators, pushbuttons and switches for a interlocking switch assembly:

- 1. Selection of the interlocking system
- 2. Establishing the number of "places"
- 3. Selection of the actuator for the functions "indicating", "pressing",
- 4.As required: selection of interlocking system option
- 5. Selection of the switching elements for the "places"

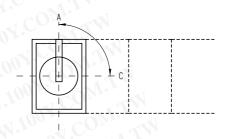
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Interlocking systems		Type No
No interlocking The actuators work independently of one another		30-500
Mutual blocking (pushbutton) Only one actuator can be operated		30-510
Mutual release Only one actuator on its own can be operated or optionally many actuators simultaneously. The release of a press is done by actuating another actuator or by the over-stroke release of a pressed-in actuator.	sed-in actuator	30-520
Mutual release and blocking Only one actuator can be operated. The release of an engaged actuator is done by actuating another actuator.	TW	30-530
Single operation with master release All actuators can be operated in any order. They engage in the pressed-in position. By operating the master release engaged actuators jump back into their original positions. The master release actuator can be placed anywhere.	se actuator, all	30-540
Sequential operation The actuators can only be operated in the sequence of 1st, 2nd, 3rd 12th button, the activated buttons repressed position. Release of the operated buttons is done by pressing the master release button which is always end of the interlocking system. The given sequence of operation of the buttons can be interrupted by operating the button. The procedure for operating the buttons then begins from the beginning again (1st, 2nd, 3rd button).	s placed at the	30-550
Interlocking system options possible in interlocking syst	ems Type No.	Type No
Master switching-status blocking The current switching status can be blocked by a button being engaged or a keylock actuator. The blocking actuator can only be placed at the beginning or end of the interlocking system.	30-520 30-530	30-599
Master release A button which is pressed (or buttons in interlocking system 30-520) can be released by means of a master release button which can be placed anywhere.	30-520 30-530	30-598
Master release and blocking (by pushbutton) A button which is pressed can be released by a release actuator being engaged while, at the same time, the whole interlocking system is blocked. The block is lifted by its own over-stroke release. The release-block actuator can be placed anywhere.	30-530	30-597
Master release and blocking (by keylock actuator) A pressed button can be released by a keylock actuator and at the same time the entire interlocking system can be blocked. The block is lifted by the operation of the keylock actuator again.	30-530	30-596
	W.	100,2
The keylock actuator can only be placed at the beginning or end of the interlocking system. Start operation block The start button and thus the entire interlocking system can be blocked by means of a button being engaged or by means of a keylock actuator. The blocking actuator can only be placed in front of the start button.	30-550	30.595

A combination of several different interlocking systems in one interlocking switch assembly is possible within limitations.





20	40	30	20	10	8	CONTRACTOR CONTRACTOR
30-550	30-540	30-530	30-520	30-510	30-200	1. Interlocking systems
- 1			4	N		30-500 no interlocking
					W	30-510 mutual blocking
	N					30-520 mutual release
1.0				4	W	30-530 mutual release and blocking
1.		-1			41	30-540 single operation with master release, special master release place, can be placed anywhere
	1					30-550 sequential operation with master release
) Dia		IN				2. Interlocking system options
C.C.	OD			1		30-599 master switching-status blocking in combination with Δ designated actuator or keylock actuator. May only be placed at the beginning or end of the key strip.
N.	CC			N	7	30-598 master release in combination with actuator 30-383.0 (pushbutton). May be placed anywhere.
00	Į.C		M	T	N	30-597 master release and blocking in combination with actuator 30-384.0 (pushbutton maintained action). May be placed anywher
10	o'Y		O)	1.7		30-596 master release and blocking in combination with keylock actuator. It may only be placed at the end of the interlocking syster
	00	01	CC		1.7	30-595 start operation block in combination with the ∆ designated actuator or keylock actuator. Always place blocking actuator in front of the start button.
	1	00	1.			3. Actuators
0	О	О	0	O	0	30-380.0 Indicator
0	0	О	0	0	o	30-381.0 Momentary action
0	0	0	0	0	0	30-382.0 Maintained action
•	•	•	•	•		30-383.0 Actuator
Δ	Δ	Δ	Δ	•	1	30-384.0 Actuator maintained action
О	О	0	0	0	0	30-360.0 Keylock actuator maintained action Key removable in (C) position and (A) position
О	0	0	0	0	00	30-361.0 Keylock actuator maintained action Key removable in (A) position (normally open contact open)
О	О	0	0	O	0	30-362.0 Keylock actuator maintained action Key removable in (C) position (normally open contact closed)
					V . >	W.Co. The Santa Santa Santa
Δ		Δ	Δ		W	30-366.0 Keylock actuator maintained action Key removable in (C) and (A) position
Δ		Δ	Δ	11		30-367.0 Keylock actuator maintained action Key removable in (A) position (normally open contact open)
Δ		Δ	Δ	W.		30-368.0 Keylock actuator maintained action Key removable in (C) position (normally open contact closed)

- with mutual interaction
- O without mutual interaction
- Δ only for interlocking system option

			Type No.
Depth adapter for indicators, flat p	olug connection 2.8	x 0.5 mm	30-769.802
Extended indicator depth adapter (same depth as low-level switchin	g element)	M MAN TON COM LAN **	30-770.806
Snap-action switching element	1 NO + 1 NC	soldering terminal plug-in connection 2.8 x 0.5 mm	30-768.822
Snap-action switching element	2 NO + 2 NC	$E = \begin{bmatrix} 1 & 11 & 11 \\ \hline 1 & 1 & 1 \\ \hline 2 & 4 \end{bmatrix} \xrightarrow{\begin{bmatrix} 1 & 1 \\ \hline 4 & 1 \end{bmatrix}} \xrightarrow{xz}$	30-761.825
Snap-action switching element	3 NO + 3 NC	$E^{} \left[\begin{array}{c} I \\ J \\ J \\ J \end{array} \right] \left[\begin{array}{c} I \\ J \\ J \\ J \end{array} \right] \left[\begin{array}{c} I \\ J \\ J \\ J \end{array} \right] \left[\begin{array}{c} J \\ J \\ J \\ J \end{array} \right] \left[\begin{array}{c} J \\ J \\ J \\ J \end{array} \right] \left[\begin{array}{c} J \\ J \\ J \\ J \\ J \end{array} \right] \left[\begin{array}{c} J \\ J \\$	30-762.825
Snap-action switching element	4 NO + 4 NC	$E^{} \underbrace{\begin{bmatrix} 1 & 11 & 111 & 11 \\ \frac{1}{2} & 1 & \frac{1}{3} & \frac{1}{2} & \frac{1}{4} \\ \frac{1}{2} & \frac{1}{4} & \frac{1}{2} & \frac{1}{4} & \frac{1}{2} & \frac{1}{4} \end{bmatrix}}_{XI} \underbrace{\left[\frac{1}{2} & \frac{1}{4} & \frac{1}{2} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \\ \frac{1}{2} & \frac{1}{4} & \frac{1}{2} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \\ \frac{1}{2} & \frac{1}{4} & \frac{1}{2} & \frac{1}{4} \\ \frac{1}{2} & \frac{1}{4} \\ \frac{1}{2} & \frac{1}{4} $	30-763.825
Low-level switching element	2 NO	E \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	30-750.836
Low-level switching element	2 NC	E 7 7 8	30-751.836
Low-level switching element	1 NO + 1 NC	E \\ \frac{1}{7} \\ \frac{1}{8}	30-752.836
Indicator with 2 blocking diodes	1 N 4007	x1- 2+ 3	30-772.806
snap action switching element 1 NO + 1 NC and 2 blocking diodes	1 N 4007	E 1 3 a- 3(+)1(-	00 17 1.020
snap action switching element 2 NO + 2 NC and 2 blocking diodes	1 N 4007	$E\begin{bmatrix} 1 & 3 & 11 & 3 & 0 & 3(*)1(*) \\ \hline 1 & 1 & 1 & 1 & 1 & 1 & 1 \\ \hline 1 & 1 & 1 & 1 & 1 & 1 & 1 \\ \hline 1 & 1 & 1 & 1 & 1 & 1 & 1 \\ \hline 1 & 1 & 1 & 1 & 1 & 1 \\ $	33 11 313 23

further switching elements on request

Important:

Proper functioning of the interlocking switch assemblies is only guaranteed with the lenses fitted.

For lenses and accessories, see under Series 31 from page 41

	Mary Mary
Company:	/di/
Street:	610
Town: (2
Order No.:	DOX.COMCIN)
Originato C	Telephone:
Dispatch address:	

Please leave free for internal r	notes
Order No.:	Date:
Delivery date:	

Sample order for a interlocking switch assemblies of 6 places mechanism 530 and snap-action switching 2 NO + 2 NC

							Number of interlocking switc	h as	SS	em	blie	es		1	P	iec
0-550	30-540	30-530	30-520	30-510	30-500	J.C.	Interlocking systems				4 5		3 7	8	9 10) 11
	* I			44	-1 = ()	30-500	No interlocking	N.	•		_1	1				
					No.	30-510	Mutual blocking		ĸ	77						
3.				1 4 4	×11	30-520	Mutual release	7	43			40				
- (\	1.4.				MA.	30-530	Mutual release and blocking	х	х	х	x >	хх	(
						30-540	Single operation with master release, release position can be placed anywhere	3)		K .	T				
	7				7	30-550	Sequential operation with master release		٧(7	47	Т				
	~ (')				-111	14.	* release button at position		_			1	1			T
40) Jan					-117	Interlocking system options (VZ)			46	ΣĒ	Ħ			1	
	O_{M}				W	30-599	Pushbutton or keylock actuator with VZ for master switching status blocking		•		C	M	١.			
1.						30-598	Pushbutton with VZ for master release	· C		. 0		1	4			T
						30-597	Pushbutton with VZ for master release and blocking	J			6	D			_	D
07						30-596	Keylock actuator with VZ for master release and blocking		1	M.	•	\top		1.0		
•	10) > "	TV.			30-595	Pushbutton or keyswitch with VZ for start operation block	3	9		7		ŊĐ		-	1
00	1.			-4			Actuators		4	1	7	•		1	1.	1
0	Ó.	o	0	0	О	30-360.0	Keylock actuator, maintained action (A/C)	Ν.	1		o	1	C		1	
0	0	.0	0	0	О	30-361.0	Keylock actuator, maintained action (A)		V	. 3	. (1)	ď				
0	0	10	0	0	0	30-362.0	Keylock actuator, maintained action (C)		1	7	3		0	1.		K
Δ	· Yo	Δ	Δ	N.T	N	30-366.0	Keylock actuator, maintained action (A/C)		1		1.				.C	U
Δ	11.1	Δ	Δ		IN	30-367.0	Keylock actuator, maintained action (A)		(1	7		1.3		00	1	C
Δ		Δ	Δ			30-368.0	Keylock actuator, maintained action (C)		A		N		1.3	4	0	
0	0	O	o].		0	30-381.0	Pushbutton actuator, momentary action					N		. 7	٥ ٨ (١)	
0	0	0	0	0	0	30-382.0	Pushbutton actuator, maintained action				× 1	15		N	70	00
•	•	•	. 3 6		Mr.	30-383.0	Pushbutton actuator •	x	х	х	x >	хх	(()	N.
Δ	V	Δ	Δ	2.	CO	30-384.0	Pushbutton actuator maintained action					V	1	N		3
0	0	0	0	0	0	30-380.0	Indicator			H	1	\top	_	N		+

with mechanical interlocking function

O no mechanical interlocking function

only for interlocking system options

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		Switching elements and indicator	adapters				1		1	1	1 1	
	30-750.836	Low-level switching element	2 NO									
	30-751.836	Low-level switching element	2 NC									
	30-752.836	Low-level switching element	1 NO + 1 NC								П	
	30-760.825	1 snap-action switching ele- ment	1 NO + 1 NC									
	30-761.825	2 snap-action switching ele- ments	2 NO + 2 NC	x	x	x x	x	x				
	30-762.825	3 snap-action switching elements	3 NO + 3 NC									
	30-763.825	4 snap-action switching elements	4 NO + 4 NC		7							
	30-768.822	1 snap-action switching element with plug-in terminals 2,8 x 0,5 mm	1 NO + 1 NC		To the							
	30-774.829	1 snap-action switching ele- ment 1 NO	+ 1 NC and 2 blocking diodes	M			N					
	30-776.829	2 snap-action switching elements 2 NO ments	+ 2 NC and 2 blocking diodes	O				Ñ				
					4	Λ.	L	Ш			Ш	
	70	1 CUE TO N			<i>)</i>				4	_		_
	- 100	For indicator 30-380.0	4111 , 400 x.		_ (4		H	+	-	Н	_
accessories such as longes	20.760.902	Depth adapter with plug-in terminals	2 9 v 0 5 mm	4		J		H		4	\vdash	_
t lamps, etc. separately.		Depth adapter with universal terminals		P.	_	d		H	+	2161	H	-
		Depth adapter with 2 blocking diodes				7		H	4		H	-
51).	00 112.000	Depth adapter with 2 blocking diode.	1			\perp	6			\pm	H	

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Order No: Date	e:
Delivery date:	
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		1			1/1/1	400	1.0	Number of interlocking switch						1	1		ece
3	0-550	30-540	30-53	0 30-520	30-510	30-500		Interlocking systems	1	2	3 4	5	6	7 8	3 9	10	11
		~ I					30-500	No interlocking		.0		4.1					
	1			4		N.F.	30-510	Mutual blocking									
1	1.	- 41			11/1/	- 4	30-520	Mutual release		17			(1				
	4	1/1/4				W.	30-530	Mutual release and blocking			N T						
			N				30-540	Single operation with master release, release position can be placed anywhere)	1.		4	1			
		7.	- 1			1	30-550	Sequential operation with master release		40	1).°		_401			
		6 1	144			- 1	M.F	* release button at position	3	ブ		6			1		
	40	Mr.		[4	NA	-11	Interlocking system options (VZ)				1/12	, "		41		
		OM				W	30-599	Pushbutton or keylock actuator with VZ for master switching- status blocking		. •			N			1	
	1.0						30-598	Pushbutton with VZ for master release			V			N Y	1		
J		a0		- N			30-597	Pushbutton with VZ for master release and blocking	J.	7		A(1		. < 1	1
				14			30-596	Keylock actuator with VZ for master release and blocking		. 6	\ .	Y			1		
		J.C	D. A.				30-595	Pushbutton or keylock actuator with VZ for start operation block	7	34			J.) }	1	N	1
	$L_{D,\alpha}$		-())	1300				Actuators	đ		yΨ			4 () 7		
	0	00	0	0	0	О	30-360.0	Keylock actuator, maintained action (A/C)		4	10		. •		o	N	
Ū	0	0	0	0	0	0	30-361.0	Keylock actuator, maintained action (A)			11	00	5		4	7	J.
	0	0	0	0	0	0	30-362.0	Keylock actuator, maintained action (C)		П	¥ - 1	1	00	1		40	7
1	Δ	×1 1	Δ	Δ	W.	~~~	30-366.0	Keylock actuator, maintained action (A/C)	N	4	V	-6.1	1	00			٠(
1	Δ	41	Δ	Δ	OM	1	30-367.0	Keylock actuator, maintained action (A)	4	N	N		×1	10	0		
	Δ	NA	Δ	Δ	701	7.7	30-368.0	Keylock actuator, maintained action (C)			1			11	100		
	0	0	0	00	0	70	30-381.0	Pushbutton actuator, momentary action			V	V		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	11	00	5
	О	O	0	0	o	0	30-382.0	Pushbutton actuator, maintained action			4	N	A.		×1	1	96
	•	•		•			30-383.0	Pushbutton actuator •					_ 1	1	1		J
_	Δ		Δ	Δ	. 1	CO	30-384.0	Pushbutton actuator, maintained action								N	3
	0	0	0	9	0	0	30-380.0	Indicator	Н				H	N	4	H	c1

with mechanical interlocking function

no mechanical interlocking function

 $^{^{\}Delta}$ only for interlocking system option

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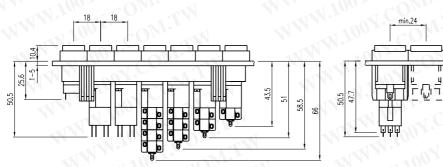
		Switching elements and ind	icator adapters				1.1		
	30-750.836	Low-level switching element	2 NO						
	30-751.836	Low-level switching element	2 NC						
	30-752.836	Low-level switching element	1 NO + 1 NC						
	30-760.825	1 snap-action switching element	1 NO + 1 NC						
	30-761.825	2 snap-action switching elements	2 NO + 2 NC						
	30-762.825	3 snap-action switching elements	3 NO + 3 NC	N					
	30-763.825	4 snap-action switching elements	4 NO + 4 NC						
	30-768.822	1 snap-action switching element with plug-in terminals 2,8 x 0,5 mm	1 NO + 1 NC	1.7		V			
	30-774.829	1 snap-action switching element	1 NO + 1 NC and 2 blocking diodes						
	30-776.829	2 snap-action switching elements	2 NO + 2 NC and 2 blocking diodes		1		N		
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	70-	CONTRACTOR) PY			4	 \bot
	100	For indicator 30-380.0	- 100x		4	4/1 -	ŀ	-467	+
r accessories such as lenses	20.760.902	Depth adapter with plug-in ter	minals 2.9 v 0.5 mm	14	\mathcal{V}				
nt lamps, etc. separately		Depth adapter with universal t		-	AI	1	100		
31).	1 3 4 5	Depth adapter with 2 blocking			+				+
01).	00 112:000	Depart adapter with 2 blocking	diodes					-	

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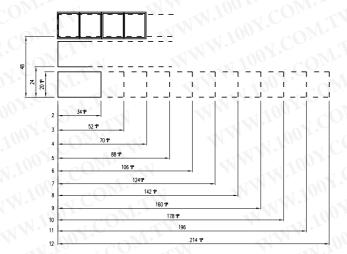
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Interlocking switch assemblies, dimensioned drawing for page 581



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Mounting Dimension



Perfect functioning is guaranteed only with the lenses fitted.

Fitting

The complete interlocking switch assembly with the indicator and switching elements mounted can be pushed in from the front and fastened at the rear.

The interlocking switch assemblies can also be fitted in several rows one next to the other (or one below the other) (block assembly).