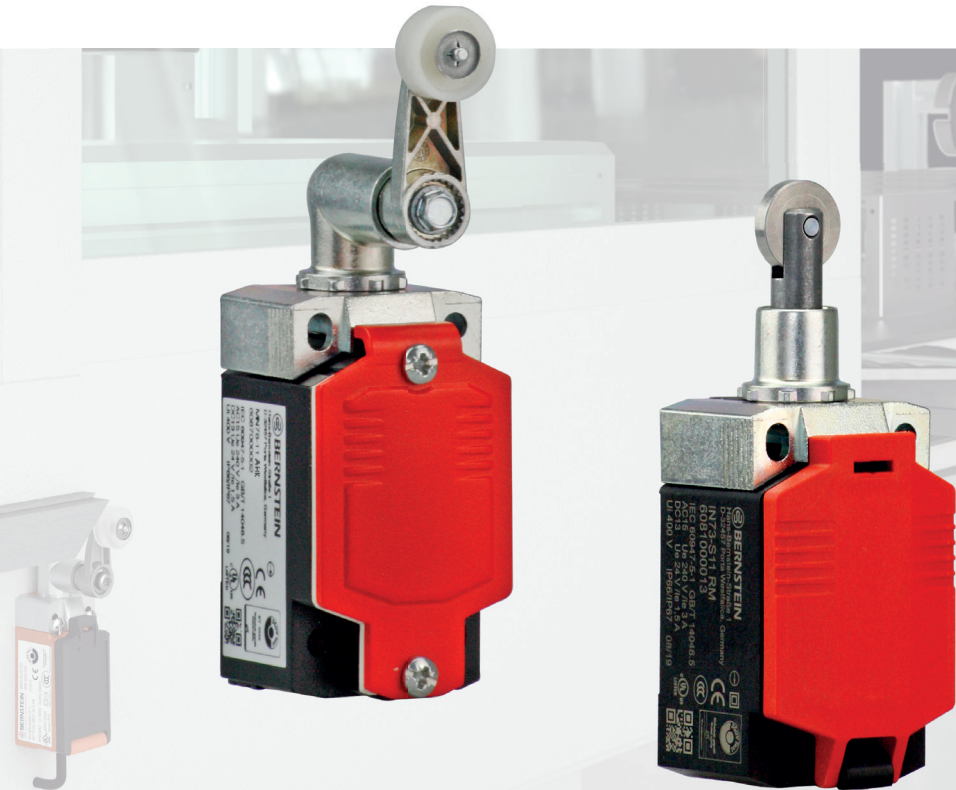




**We make  
safety happen.**



**Position switches**  
IN73 and MN78

# Plastic enclosures

## Position switches Plastic IN73

**NEW**



**2 OR 4 CONTACTS**

### Good to know ...

Our new standard switch, the IN73, is the latest in our ENK-series. It offers a modular, robust enclosure and a wide range of actuators made of metal. In mechanical and plant engineering, it is used as a position and safety switch in rough environments as it features additional fixing holes to achieve a better installation.

The “big brother” of the IN65, it has a similar modular design, however there is an important difference: Whereas the C14 switch insert (introduced on page 26) has 2 contacts, the IN73 can be equipped with the C17 switch insert with 4 contacts.

The modular design and the easy way to change the actuator allows for a great variety of applications, for example for monitoring doors, hoods, and flaps, or for detecting the position of moving machine parts. The IN73 is as cost effective as a plastic enclosed switch, robust to install like a metal switch, and clever due to its modular design and easy to change actuators.

## Technical design

- Slow- and snap-action
- **Versions:**
  - With C14 switch insert: 2 NC, 2 NO, 1 NC/1 NO
  - With C17 switch insert: 4 NO, 4 NC, 2 NO/2 NC
  - 1 NC/3 NO and 3 NC/1 NO

## Technical data

Electrical data		
Design insulation voltage	U <sub>i</sub> max.	400 V AC
Conventional thermoelectric current	(up to) I <sub>the</sub>	5 A
Rated operating voltage	U <sub>e</sub> max.	240 V AC
Utilisation category (up to)	AC-15, U <sub>e</sub> /I <sub>e</sub> 240 V/3 A DC-13 U <sub>e</sub> /I <sub>e</sub> 24 V/1.5 A	
Short-circuit protection (up to)	Safety fuse 4 A gG	
Protection class	II, protective insulation	
Mechanical data		
Enclosure/Cover material	Thermoplastics, glass-fibre reinforced (UL 94-V0)	
Ambient temperature	−30 °C to +75 °C	
Mechanical lifetime (up to)	10 × 10 <sup>6</sup> switching cycles	
B10d NC Contact cycles (up to)	20 million	
B10d NO Contact cycles (up to)	1 million	
Switching frequency	≤ 60/min.	
Type of connection	4 screwed connections (M3)	
Conductor cross-sections	Single-wire 0.5 – 1.5 mm <sup>2</sup> or strand with wire-end ferrule 0.5 – 1.5 mm <sup>2</sup>	
Cable entry	1 × M20 × 1.5	
Protection class	IP66/IP67 according to EN 60529; DIN VDE 0470 T1	
Standards		
VDE 0660 T211, DIN EN 60947-5-4, IEC 60947-5-4 DIN EN ISO 13849-1, DIN EN ISO 13849-2		
① Depending on switching system		

## Product characteristics

- High reliability at low currents (1 mA/24 VDC)
- Up to 4 contacts
- Actuator and installation collar with mounting holes made of metal
- Easy turning (8 x 45°) and changing of the actuators without a tool
- Standard switch and standard actuator according to DIN EN 50041
- Protection class IP66 and IP67 according to EN 60529



## Options

- Available with an M12 connector
- On request, available with customised cables and connectors

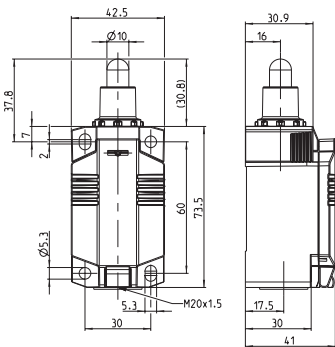
## Mounting

- 2 oval holes for adjustment for M5 screws
- 2 round holes for M5 screws for fixing when used for safety applications

# POSITION SWITCHES PLASTIC IN73

## IN73-... SM

Replacement actuator: 3918022415



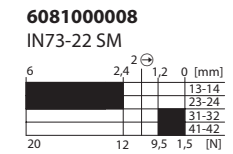
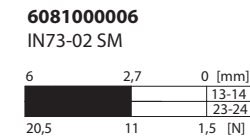
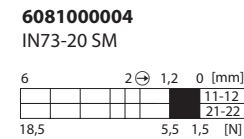
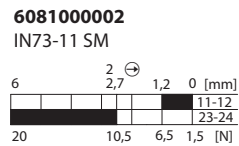
1 NC / 1 NO

2 NC

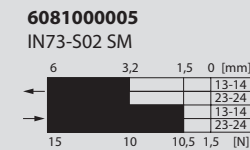
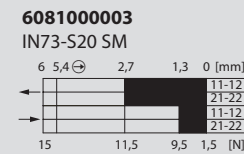
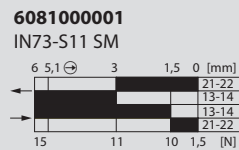
2 NO

2 NC / 2 NO

Slow-action system



Snap-action system



4 NC

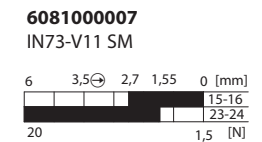
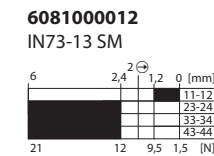
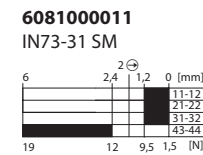
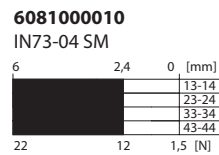
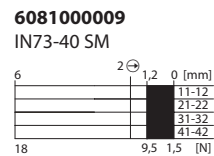
4 NO

3 NC / 1 NO

1 NC / 3 NO

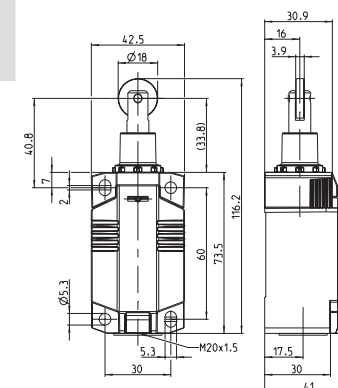
1 NC / 1 NO  
overlapping

Slow-action system





	1 NC / 1 NO	2 NC	2 NO	2 NC / 2 NO
Slow-action system	<b>6081000014</b> IN73-11 RM 	<b>6081000016</b> IN73-20 RM 	<b>6081000018</b> IN73-02 RM 	<b>6081000020</b> IN73-22 RM 
Snap-action system	<b>6081000013</b> IN73-S11 RM 	<b>6081000015</b> IN73-S20 RM 	<b>6081000017</b> IN73-S02 RM 	

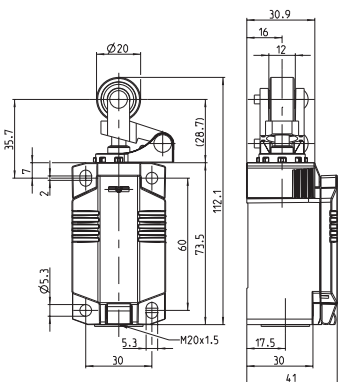


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Slow-action system	<b>6081000021</b> IN73-40 RM 	<b>6081000022</b> IN73-04 RM 	<b>6081000023</b> IN73-31 RM 	<b>6081000024</b> IN73-13 RM 	<b>6081000019</b> IN73-V11 RM 

# POSITION SWITCHES PLASTIC IN73

## IN73-... HK

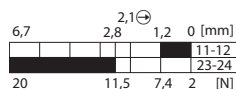
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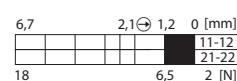
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Slow-action system

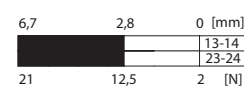
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IN73-11 HK



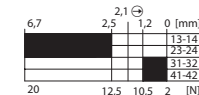
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IN73-20 HK



**6081000030**  
IN73-02 HK



**6081000032**  
IN73-22 HK

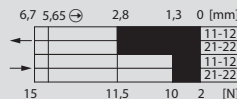


Snap-action system

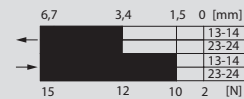
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IN73-S11 HK



**6081000027**  
IN73-S20 HK



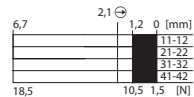
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IN73-S02 HK



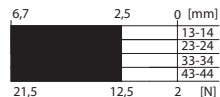
	4 NC	4 NO	3 NC / 1 NO	1 NC / 3 NO	1 NC / 1 NO overlapping
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Slow-action system

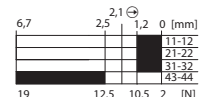
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IN73-40 HK



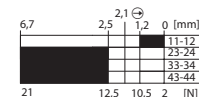
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IN73-04 HK



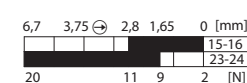
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IN73-31 HK

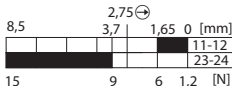
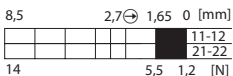
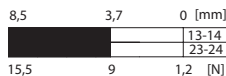
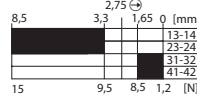
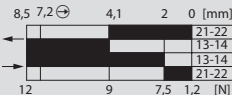
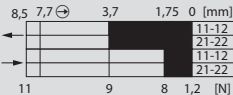
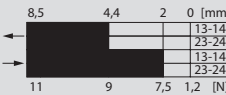


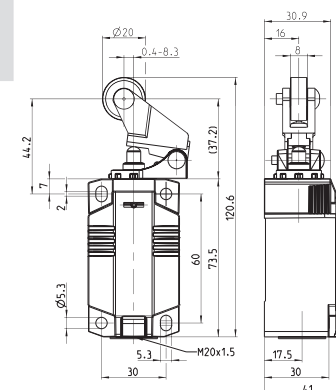
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IN73-13 HK

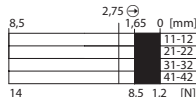
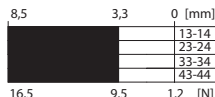
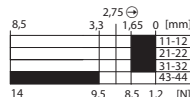
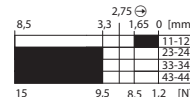
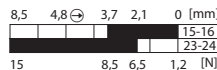


**6081000031**  
IN73-V11 HK



	1 NC / 1 NO	2 NC	2 NO	2 NC / 2 NO
Slow-action system	<b>6081000038</b> IN73-11 DGHK 	<b>6081000040</b> IN73-20 DGHK 	<b>6081000042</b> IN73-02 DGHK 	<b>6081000044</b> IN73-22 DGHK 
Snap-action system	<b>6081000037</b> IN73-S11 DGHK 	<b>6081000039</b> IN73-S20 DGHK 	<b>6081000041</b> IN73-S02 DGHK 	

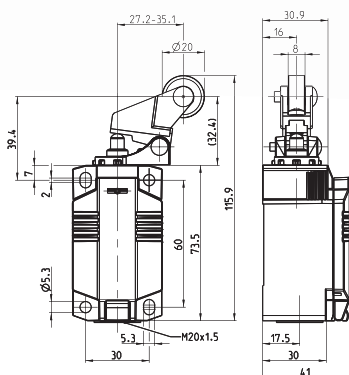


	4 NC	4 NO	3 NC / 1 NO	1 NC / 3 NO	1 NC / 1 NO overlapping
Slow-action system	<b>6081000045</b> IN73-40 DGHK 	<b>6081000046</b> IN73-04 DGHK 	<b>6081000047</b> IN73-31 DGHK 	<b>6081000048</b> IN73-13 DGHK 	<b>6081000043</b> IN73-V11 DGHK 

# POSITION SWITCHES PLASTIC IN73

## IN73-... DGKK

Replacement actuator: 3918202430



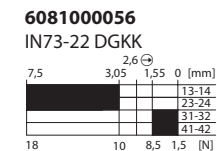
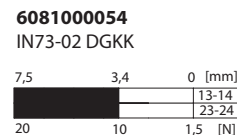
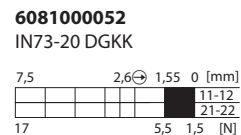
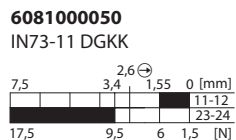
1 NC / 1 NO

2 NC

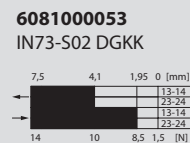
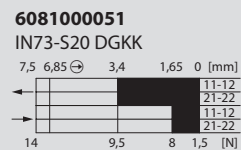
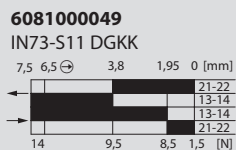
2 NO

2 NC / 2 NO

Slow-action system



Snap-action system



4 NC

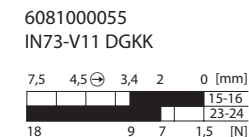
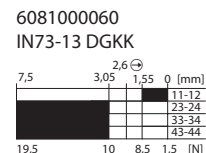
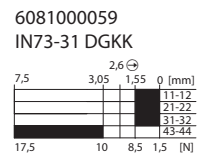
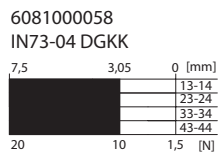
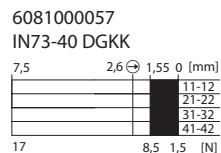
4 NO

3 NC / 1 NO

1 NC / 3 NO

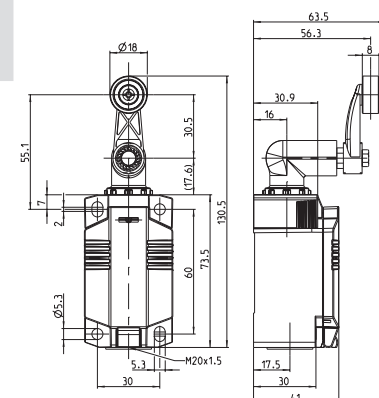
1 NC / 1 NO  
overlapping

Slow-action system





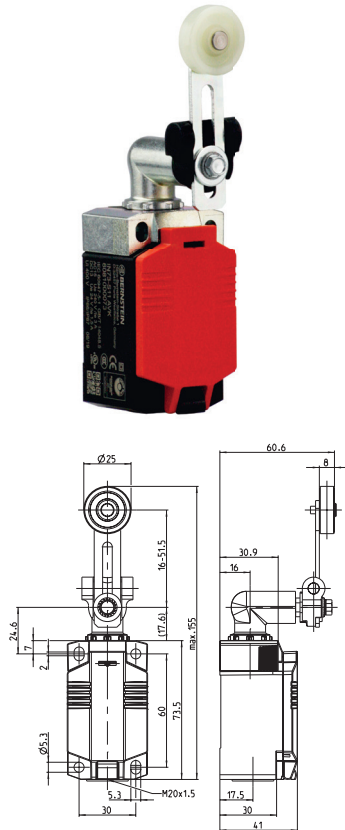
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Slow-action system	<b>6081000062</b> IN73-11 AHK 	<b>6081000064</b> IN73-20 AHK 	<b>6081000066</b> IN73-02 AHK 	<b>6081000068</b> IN73-22 AHK 
Snap-action system	<b>6081000061</b> IN73-S11 AHK 	<b>6081000063</b> IN73-S20 AHK 	<b>6081000065</b> IN73-S02 AHK 	



	4 NC	4 NO	3 NC / 1 NO	1 NC / 3 NO	1 NC / 1 NO overlapping
Slow-action system	<b>6081000069</b> IN73-40 AHK 	<b>6081000070</b> IN73-04 AHK 	<b>6081000071</b> IN73-31 AHK 	<b>6081000072</b> IN73-13 AHK 	<b>6081000067</b> IN73-V11 AHK 



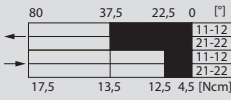
# POSITION SWITCHES PLASTIC IN73



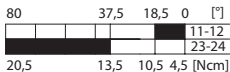
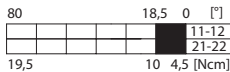
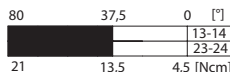
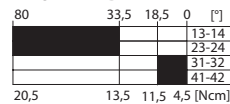



## IN73-... AVK

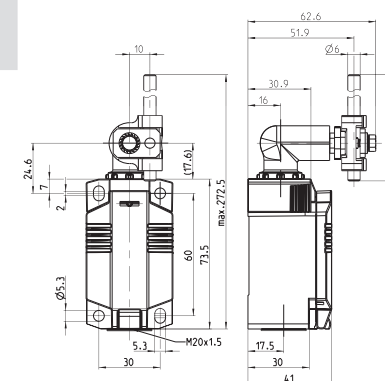
Replacement actuator: 3918362424

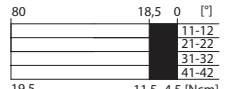
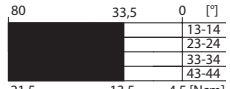
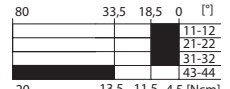
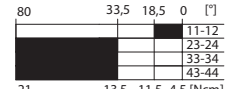
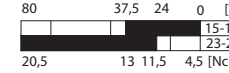


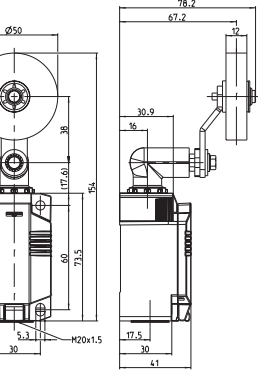
1 NC / 1 NO					2 NC					2 NO					2 NC / 2 NO									
Slow-action system					<b>6081000074</b> IN73-11 AVK					<b>6081000076</b> IN73-20 AVK					<b>6081000078</b> IN73-02 AVK					<b>6081000080</b> IN73-22 AVK				
																								
Snap-action system					<b>6081000073</b> IN73-S11 AVK					<b>6081000075</b> IN73-S20 AVK					<b>6081000077</b> IN73-S02 AVK									
																								
4 NC					4 NO					3 NC / 1 NO					1 NC / 3 NO					1 NC / 1 NO overlapping				
6081000081 IN73-40 AVK					<b>6081000082</b> IN73-04 AVK					<b>6081000083</b> IN73-31 AVK					<b>6081000084</b> IN73-13 AVK					<b>6081000079</b> IN73-V11 AVK				

## IN73-... AHDM

	1 NC / 1 NO	2 NC	2 NO	2 NC / 2 NO
Slow-action system	<b>6081000086</b> IN73-11 AHDM 	<b>6081000088</b> IN73-20 AHDM 	<b>6081000090</b> IN73-02 AHDM 	<b>6081000092</b> IN73-22 AHDM 
Snap-action system	<b>6081000085</b> IN73-S11 AHDM 	<b>6081000087</b> IN73-S20 AHDM 	<b>6081000089</b> IN73-S02 AHDM 	



	4 NC	4 NO	3 NC / 1 NO	1 NC / 3 NO	1 NC / 1 NO overlapping
Slow-action system	<b>6081000093</b> IN73-40 AHDM 	<b>6081000094</b> IN73-04 AHDM 	<b>6081000095</b> IN73-31 AHDM 	<b>6081000096</b> IN73-13 AHDM 	<b>6081000091</b> IN73-V11 AHDM 

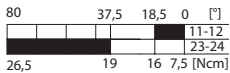
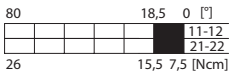
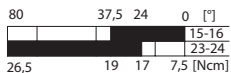
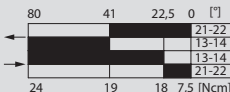


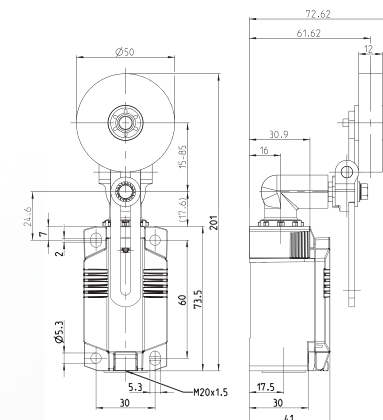
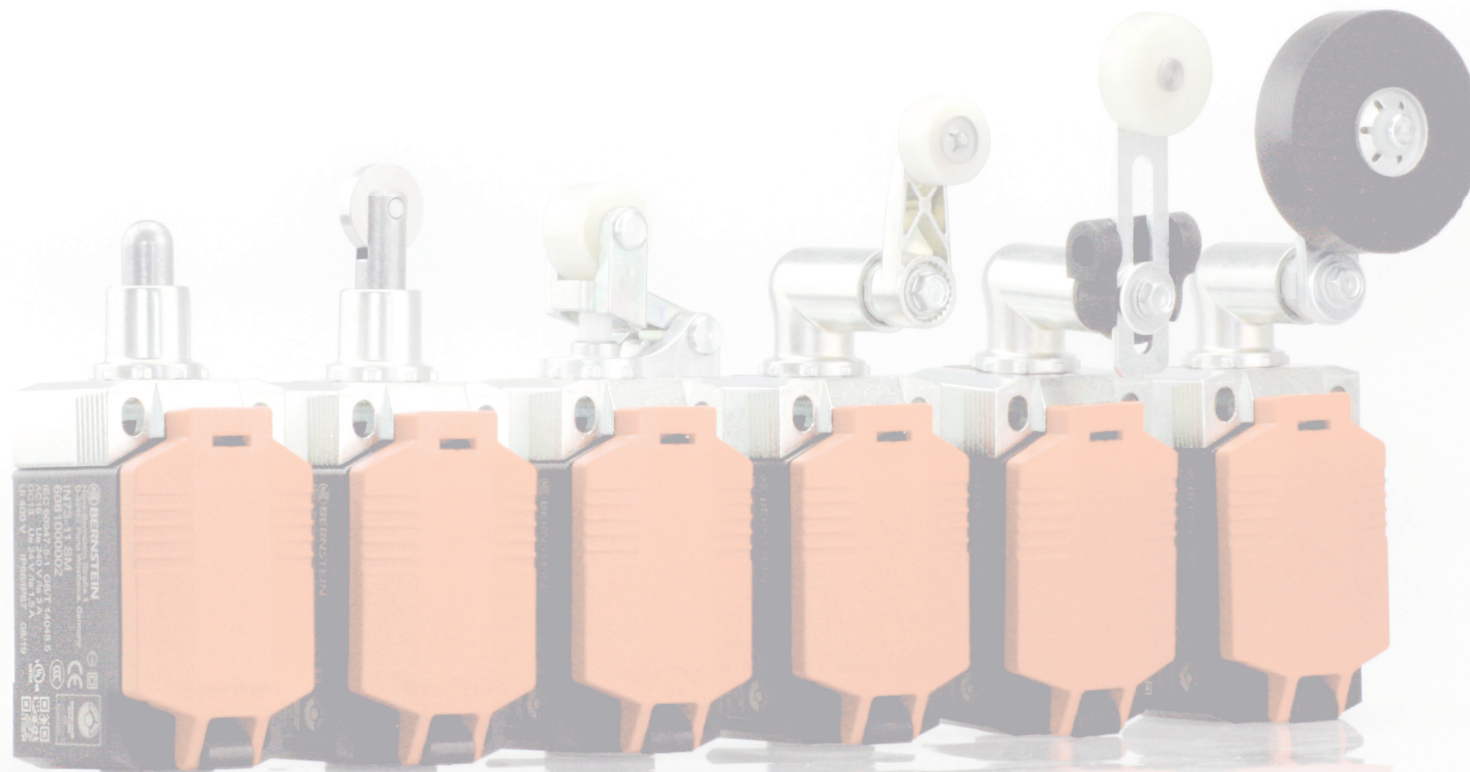
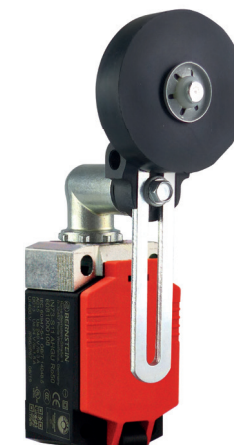
## IN73-... AHGU RO50

Replacement actuator: 3918352422



	1 NC / 1 NO	2 NC	1 NC / 1 NO overlapping
Slow-action system	<p><b>6081000109</b> IN73-11 AHGU Ro50</p> <p>80 29 <math>\ominus</math> 37,5 18,5 0 [V] 26,5 19 16 7,5 [Ncm]</p>	<p><b>6081000110</b> IN73-20 AHGU Ro50</p> <p>80 29 <math>\ominus</math> 18,5 0 [V] 26 15,5 7,5 [Ncm]</p>	<p><b>6081000111</b> IN73-V11 AHGU Ro50</p> <p>80 48 <math>\ominus</math> 37,5 24 0 [V] 26,5 19 17 7,5 [Ncm]</p>
Snap-action system	<p><b>6081000108</b> IN73-S11 AHGU Ro50</p> <p>80 68 <math>\ominus</math> 41 22,5 0 [V] 24 19 18 7,5 [Ncm]</p>		

	1 NC / 1 NO	2 NC	1 NC / 1 NO overlapping
Slow-action system	<b>6081000105</b> IN73-11 AVGU Ro50 	<b>6081000106</b> IN73-20 AVGU Ro50 	<b>6081000107</b> IN73-V11 AVGU Ro50 
Snap-action system	<b>6081000104</b> IN73-S11 AVGU Ro50 		



# Metal enclosure

## Position switches Metal MN78

**NEW**



**2 OR 4 CONTACTS**

### Product characteristics

- Standard switch according to DIN EN 50041, standard actuator according to DIN EN 50041
- Protection class IP66 and IP67 conforming to EN 60529
- Enclosure: Die-cast aluminium
- Cover: Aluminium
- Actuator rotatable by  $8 \times 45^\circ$
- Cable entry M20  $\times$  1.5

### Good to know ...

The MN78 is the metal version of the IN73 and designed for the use in very rough environments. A modular, robust metal enclosure with a wide range of Metalast actuators. Just as with the IN73, the MN78 offers additional fixing holes for safe installation.

It can be equipped with the C14 or C17 switch insert (2 contacts or 4 contacts).

Rough environments, outdoor areas, or high mechanical loads are all no problem for the MN78.



## Technical design

- Slow- and snap action
- **Versions:**  
With C14 switch insert: 2 NC, 2 NO, 1 NC/1 NO  
With C17 switch insert: 4 NO, 4 NC, 2 NO/2 NC  
1 NC/3 NO and 3 NC/1 NO

## Technical data

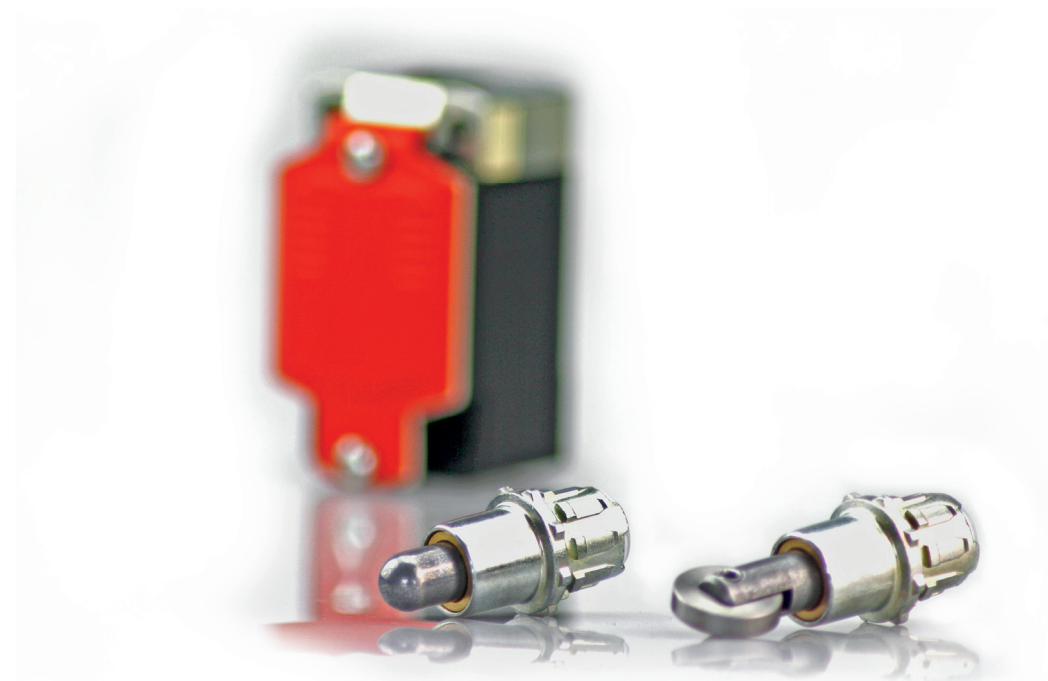
Electrical data		
Design insulation voltage	$U_i$ max.	400 V AC
Conventional thermoelectric current	(up to) $I_{the}$	5 A
Rated operating voltage	$U_e$ max.	240 V AC/24 V DC
Utilisation category (up to)		AC-15, $U_e/I_e$ 240 V/3 A DC-13 $U_e/I_e$ 24 V/1.5 A (B300 Table A.1)
Short circuit protection (up to)		Safety fuse 4 A gG
Protection class		II, protective insulation
Mechanical data		
Enclosure material		Metal, glass-fibre reinforced (UL 94-V0)
Ambient temperature		-30 °C to +75 °C
Mechanical lifetime (up to)		30 × 10 <sup>6</sup> switching cycles
B10d NC Contact cycles (up to)		20 million
B10d NO Contact cycles (up to)		1 million
Switching frequency		≤ 60/min.
Type of connection		4 screwed connections (M3)
Conductor cross-sections		Single-wire 0.5 – 1.5 mm <sup>2</sup> or strand with wire-end ferrule 0.5 – 1.5 mm <sup>2</sup>
Cable entry		1 × M20 × 1.5
Protection class		IP66/IP67 according to EN 60529; DIN VDE 0470 T1
Standards		
VDE 0660 T211, DIN EN 60947-5-4, IEC 60947-5-4		
DIN EN ISO 13849-1, DIN EN ISO 13849-2		
① Depending on switching system		

## Options

- Available with M12 connector
- Customised cables and connectors are available on request

## Mounting

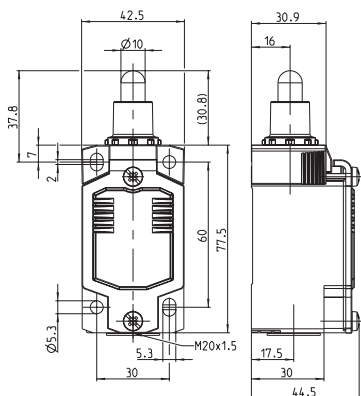
- 2 screws M5, adjustment with oval holes
- 2 screws M5 for safety applications without additional fixation required



# POSITION SWITCHES METAL MN78

## MN78-... SM

Replacement actuator: 3918022415



1 NC / 1 NO

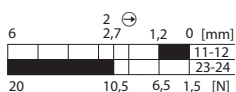
2 NC

2 NO

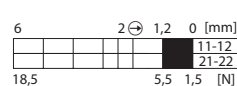
2 NC / 2 NO

Slow-action system

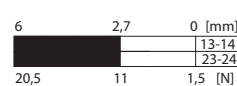
**6087000002**  
MN78-11 SM



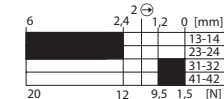
**6087000004**  
MN78-20 SM



**6087000006**  
MN78-02 SM



**6087000008**  
MN78-22 SM

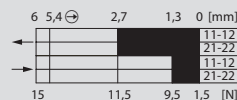


Snap-action system

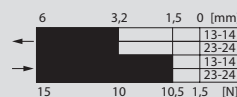
**6087000001**  
MN78-S11 SM



**6087000003**  
MN78-S20 SM



**6087000005**  
MN78-S02 SM



4 NC

4 NO

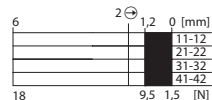
3 NC / 1 NO

1 NC / 3 NO

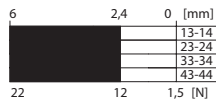
1 NC / 1 NO  
overlapping

Slow-action system

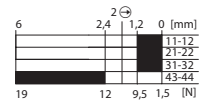
**6087000009**  
MN78-40 SM



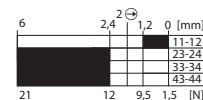
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MN78-04 SM



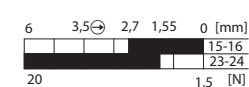
**6087000011**  
MN78-31 SM



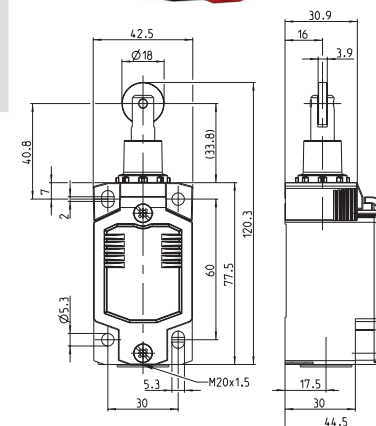
**6087000012**  
MN78-13 SM



**6087000007**  
MN78-V11 SM



	1 NC / 1 NO	2 NC	2 NO	2 NC / 2 NO
Slow-action system	<b>6087000014</b> MN78-11 RM 	<b>6087000016</b> MN78-20 RM 	<b>6087000018</b> MN78-02 RM 	<b>6087000020</b> MN78-22 RM 
Snap-action system	<b>6087000013</b> MN78-S11 RM 	<b>6087000015</b> MN78-S20 RM 	<b>6087000017</b> MN78-S02 RM 	

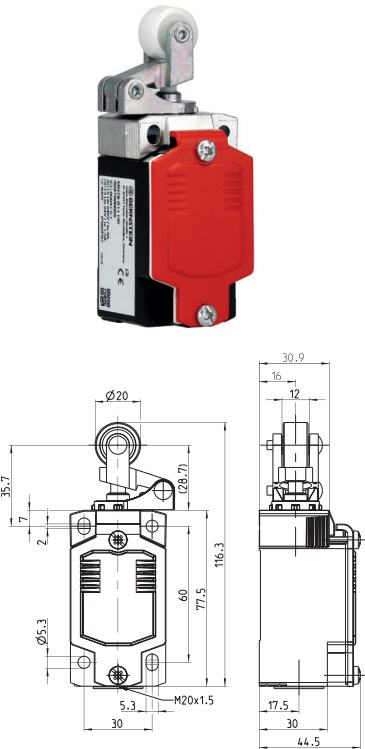


	4 NC	4 NO	3 NC / 1 NO	1 NC / 3 NO	1 NC / 1 NO overlapping
Slow-action system	<b>6087000021</b> MN78-40 RM 	<b>6087000022</b> MN78-04 RM 	<b>6087000023</b> MN78-31 RM 	<b>6087000024</b> MN78-13 RM 	<b>6087000019</b> MN78-V11 RM 

# POSITION SWITCHES METAL MN78

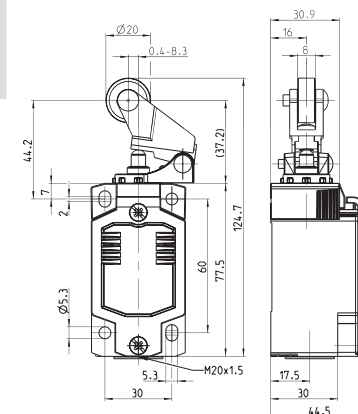
## MN78-... HK

Replacement actuator: 3918202432



1 NC / 1 NO					2 NC					2 NO					2 NC / 2 NO									
Slow-action system					<b>6087000026</b> MN78-11 HK					<b>6087000028</b> MN78-20 HK					<b>6087000030</b> MN78-02 HK					<b>6087000032</b> MN78-22 HK				
Snap-action system					<b>6087000025</b> MN78-S11 HK					<b>6087000027</b> MN78-S20 HK					<b>6087000029</b> MN78-S02 HK									

**MN78-... DGHK**

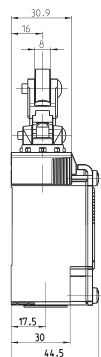
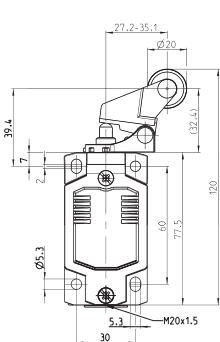
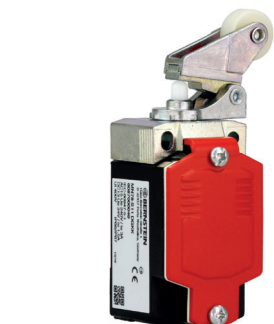
19



# POSITION SWITCHES METAL MN78

## MN78-... DGKK

Replacement actuator: 3918202430



1 NC / 1 NO

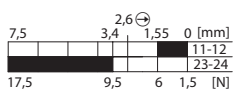
2 NC

2 NO

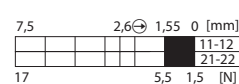
2 NC / 2 NO

Slow-action system

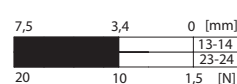
**6087000050**  
MN78-11 DGKK



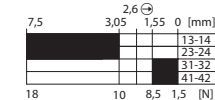
**6087000052**  
MN78-20 DGKK



**6087000054**  
MN78-02 DGKK

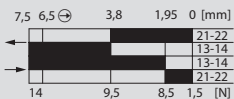


**6087000056**  
MN78-22 DGKK

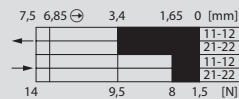


Snap-action system

**6087000049**  
MN78-S11 DGKK



**6087000051**  
MN78-S20 DGKK



**6087000053**  
MN78-S02 DGKK



4 NC

4 NO

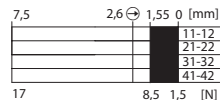
3 NC / 1 NO

1 NC / 3 NO

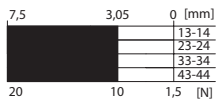
1 NC / 1 NO  
overlapping

Slow-action system

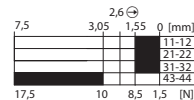
**6087000057**  
MN78-40 DGKK



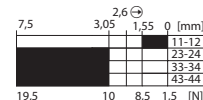
**6087000058**  
MN78-04 DGKK



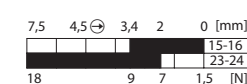
**6087000059**  
MN78-31 DGKK



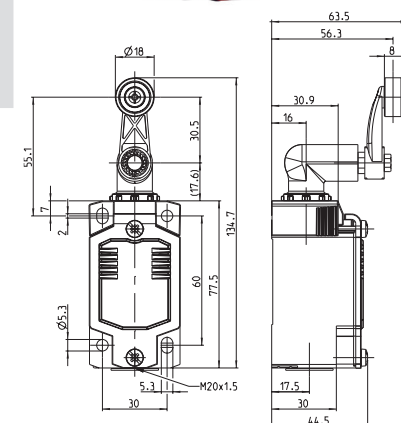
**6087000060**  
MN78-13 DGKK



**6087000055**  
MN78-V11 DGKK

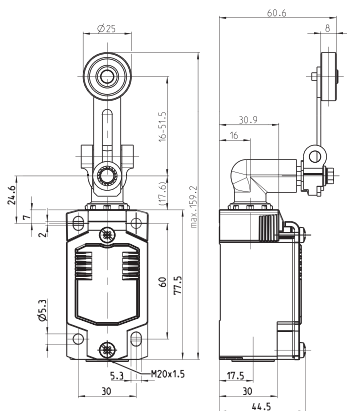


	1 NC / 1 NO	2 NC	2 NO	2 NC / 2 NO
Slow-action system	<b>6087000062</b> MN78-11 AHK  20,5 13,5 10,5 4,5 [Ncm]	<b>6087000064</b> MN78-20 AHK  19,5 10 4,5 [Ncm]	<b>6087000066</b> MN78-02 AHK  21 13,5 4,5 [Ncm]	<b>6087000068</b> MN78-22 AHK  20,5 13,5 11,5 4,5 [Ncm]
Snap-action system	<b>6087000061</b> MN78-S11 AHK  17,5 13,5 12,5 4,5 [Ncm]	<b>6087000063</b> MN78-S20 AHK  17,5 13,5 12,5 4,5 [Ncm]	<b>6087000065</b> MN78-S02 AHK  17,5 14 12,5 4,5 [Ncm]	



	4 NC	4 NO	3 NC / 1 NO	1 NC / 3 NO	1 NC / 1 NO overlapping
Slow-action system	<b>6087000069</b> MN78-40 AHK  19,5 11,5 4,5 [Ncm]	<b>6087000070</b> MN78-04 AHK  21,5 13,5 4,5 [Ncm]	<b>6087000071</b> MN78-31 AHK  20 13,5 11,5 4,5 [Ncm]	<b>6087000072</b> MN78-13 AHK  21 13,5 11,5 4,5 [Ncm]	<b>6087000067</b> MN78-V11 AHK  20,5 13 11,5 4,5 [Ncm]

	1 NC / 1 NO	2 NC	2 NO	2 NC / 2 NO
Slow-action system	<b>6087000074</b> MN78-11 AVK 	<b>6087000076</b> MN78-20 AVK 	<b>6087000078</b> MN78-02 AVK 	<b>6087000080</b> MN78-22 AVK 
Snap-action system	<b>6087000073</b> MN78-S11 AVK 	<b>6087000075</b> MN78-S20 AVK 	<b>6087000077</b> MN78-S02 AVK 	



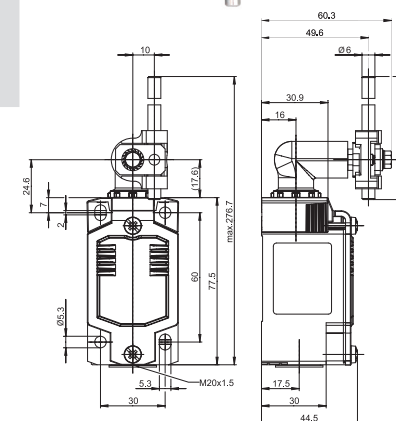
	4 NC	4 NO	3 NC / 1 NO	1 NC / 3 NO	1 NC / 1 NO overlapping
Slow-action system	<b>6087000081</b> MN78-40 AVK 	<b>6087000082</b> MN78-04 AVK 	<b>6087000083</b> MN78-31 AVK 	<b>6087000084</b> MN78-13 AVK 	<b>6087000079</b> MN78-V11 AVK 



# Replacement actuator: 3918372421

## MN78-... AHDM

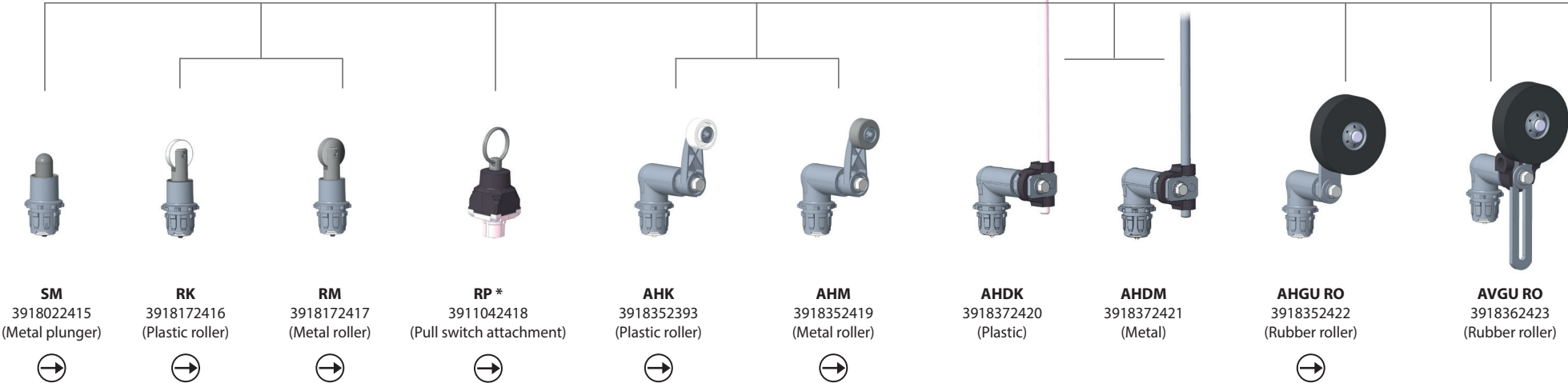
	1 NC / 1 NO	2 NC	2 NO	2 NC / 2 NO
Slow-action system	<b>6087000086</b> MN78-11 AHDM  80 37,5 18,5 0 [°] 11-12 23-24 20,5 13,5 10,5 4,5 [Ncm]	<b>6087000088</b> MN78-20 AHDM  80 18,5 0 [°] 11-12 21-22 19,5 10 4,5 [Ncm]	<b>6087000090</b> MN78-02 AHDM  80 37,5 0 [°] 13-14 23-24 21 13,5 4,5 [Ncm]	<b>6087000092</b> MN78-22 AHDM  80 33,5 18,5 0 [°] 13-14 23-24 31-32 41-42 20,5 13,5 11,5 4,5 [Ncm]
Snap-action system	<b>6087000085</b> MN78-S11 AHDM  80 41 22,5 0 [°] 21-22 13-14 11-12 21-22 17,5 13,5 12,5 4,5 [Ncm]	<b>6087000087</b> MN78-S20 AHDM  80 37,5 22,5 0 [°] 11-12 21-22 13-14 21-22 17,5 13,5 12,5 4,5 [Ncm]	<b>6087000089</b> MN78-S02 AHDM  80 44 22,5 0 [°] 13-14 23-24 13-14 23-24 17,5 14 12,5 4,5 [Ncm]	



	4 NC	4 NO	3 NC / 1 NO	1 NC / 3 NO	1 NC / 1 NO overlapping
Slow-action system	<b>6087000093</b> MN78-04 AHDM  80 18,5 0 [°] 11-12 21-22 31-32 41-42 19,5 11,5 4,5 [Ncm]	<b>6087000094</b> MN78-04 AHDM  80 33,5 0 [°] 13-14 23-24 33-34 43-44 21,5 13,5 4,5 [Ncm]	<b>6087000095</b> MN78-31 AHDM  80 33,5 18,5 0 [°] 11-12 21-22 31-32 43-44 20 13,5 11,5 4,5 [Ncm]	<b>6087000096</b> MN78-13 AHDM  80 33,5 18,5 0 [°] 11-12 23-24 33-34 43-44 21 13,5 11,5 4,5 [Ncm]	<b>6087000091</b> MN78-V11 AHDM  80 37,5 24 0 [°] 15-16 23-24 20,5 13 11,5 4,5 [Ncm]

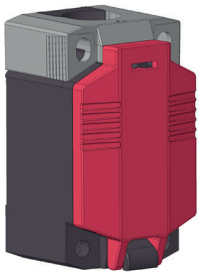
# ACTUATORS IN73, MN78

Here is a small selection of our actuators. Others are available on request.



IN73 partially assembled with a switching unit

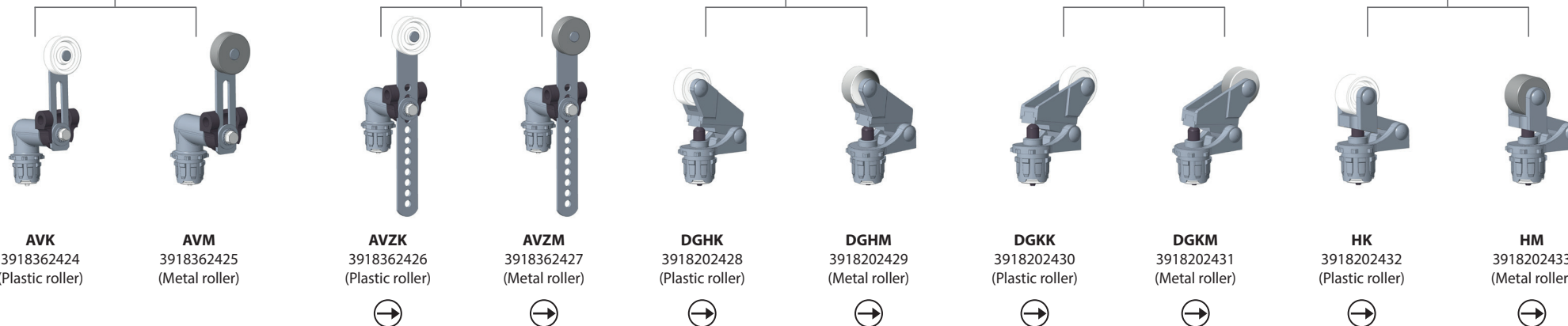
	1 NC / 1 NO	2 NC	2 NO	2 NC / 2 NO
Slow-action system	<b>6081000113</b> IN73-11 M20	<b>6081000115</b> IN73-20 M20	<b>6081000117</b> IN73-02 M20	<b>6081000119</b> IN73-22 M20
Snap-action system	<b>6081000112</b> IN73-S11 M20	<b>6081000114</b> IN73-S20 M20	<b>6081000116</b> IN73-S02 M20	



	4 NC	4 NO	3 NC / 1 NO	1 NC / 3 NO	1 NC / 1 NO overlapping
Slow-action system	<b>6081000120</b> IN73-40 M20	<b>6081000121</b> IN73-04 M20	<b>6081000122</b> IN73-31 M20	<b>6081000123</b> IN73-13 M20	<b>6081000118</b> IN73-V11 M20

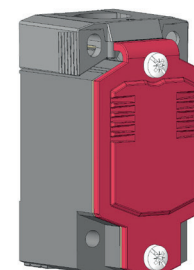
\* Can only be used with slow-action systems.





**MN78** partially assembled with a switching unit

	1 NC / 1 NO	2 NC	2 NO	2 NC / 2 NO
Slow-action system	<b>6087000103</b> MN78-11 M20	<b>6087000105</b> MN78-20 M20	<b>6087000107</b> MN78-02 M20	<b>6087000109</b> MN78-22 M20
Snap-action system	<b>6087000102</b> MN78-S11 M20	<b>6087000104</b> MN78-S20 M20	<b>6087000106</b> MN78-S02 M20	



	4 NC	4 NO	3 NC / 1 NO	1 NC / 3 NO	1 NC / 1 NO overlapping
Slow-action system	<b>6087000110</b> MN78-40 M20	<b>6087000111</b> MN78-04 M20	<b>6087000112</b> MN78-31 M20	<b>6087000113</b> MN78-13 M2	<b>6087000108</b> MN78-V11 M20

# POSITION SWITCHES

## What's so special about the C14?

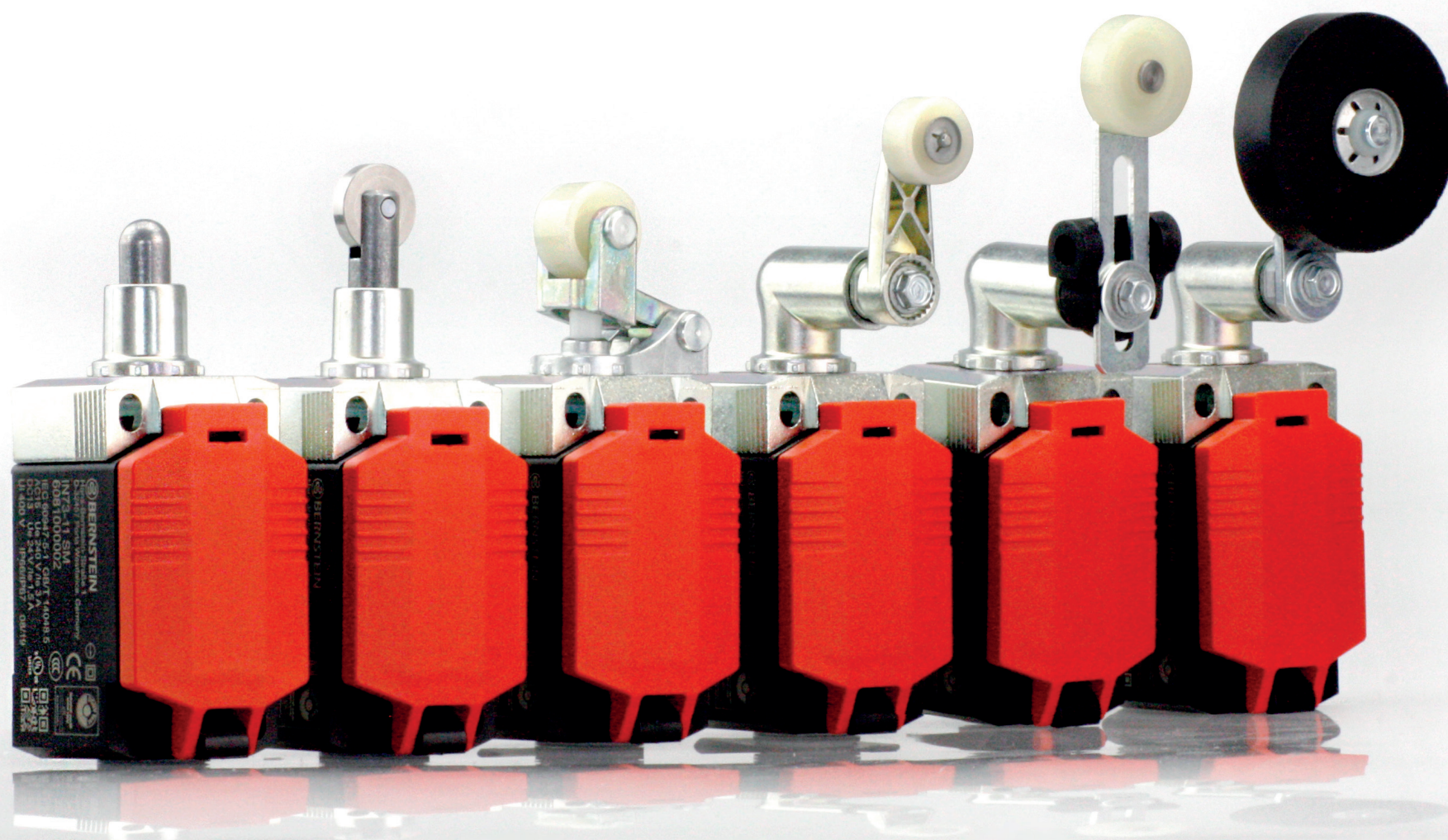
We installed a modern assembly line in our factory in Hille-Hartum to produce the new C14 switch inserts (1 NC/1 NO, 2 NC, 2 NO). The modular design of the line allows maximum flexibility for the production of all the different switch inserts. During the fully-automatic manufacturing process, all switch inserts are tested to ensure the highest quality. More than 800 switch inserts can be produced per hour.

The most important feature of the C14 switch insert is the encapsulated contacts. Production takes place in a cleanroom environment to ensure that the contact surfaces are extremely clean, even during the assembly. And due to the encapsulated enclosure of the C14 switch insert, we can ensure that, even after the manufacturing process, no dirt or dust can contaminate the contacts. The switch can therefore handle very low currents of 1 mA at 24 VDC.



**C14 SWITCH INSERT**







**We make  
safety happen.**



**We keep safe  
your visions.**

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