

IN73- Series

Larger Modular Plastic Body
Position & Limit Switches



Position & Limit Switches

IN73 Series - Plastic Body



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 37) 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.

Position & Limit Switches

IN73 Series - Plastic Body

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
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	
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 ⁶ 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 ² or strand with wire-end ferrule 0.5 – 1.5 mm ²	
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



Options

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

Mounting

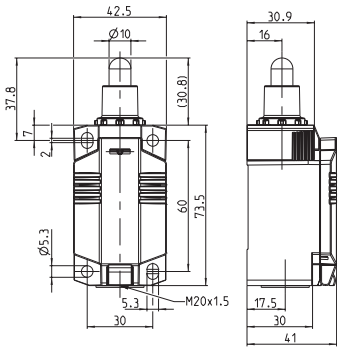
- 2 oval holes for adjustment for M5 screws
- 2 round holes for M5 screws for fixing when used for safety applications

Position & Limit Switches

IN73 Series - Plastic Body

IN73-... SM

Replacement actuator: 3918022415



	1 NC / 1 NO	2 NC	2 NO	2 NC / 2 NO
Slow-action system	6081000002 IN73-11 SM 	6081000004 IN73-20 SM 	6081000006 IN73-02 SM 	6081000008 IN73-22 SM
Snap-action system	6081000001 IN73-S11 SM 	6081000003 IN73-S20 SM 	6081000005 IN73-S02 SM 	

	4 NC	4 NO	3 NC / 1 NO	1 NC / 3 NO	1 NC / 1 NO overlapping
Slow-action system	6081000009 IN73-40 SM 	6081000010 IN73-04 SM 	6081000011 IN73-31 SM 	6081000012 IN73-13 SM 	6081000007 IN73-V11 SM

Position & Limit Switches

IN73 Series - Plastic Body

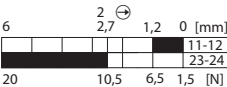


Replacement actuator: 3918172417

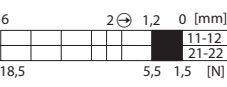
IN73-... RM

Slow-action system

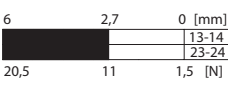
6081000014
IN73-11 RM



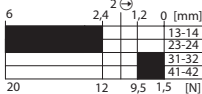
6081000016
IN73-20 RM



6081000018
IN73-02 RM

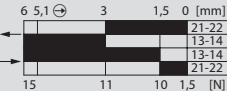


6081000020
IN73-22 RM

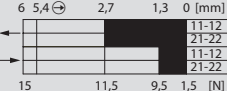


Snap-action system

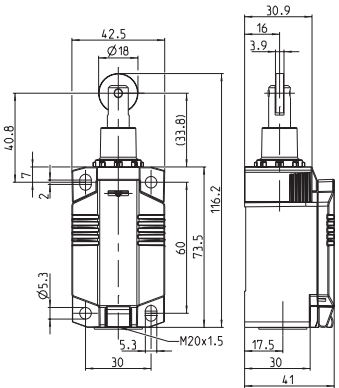
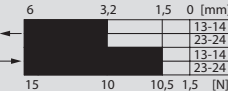
6081000013
IN73-S11 RM



6081000015
IN73-S20 RM



6081000017
IN73-S02 RM



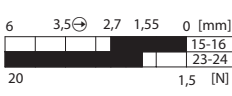
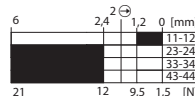
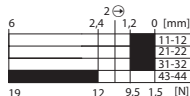
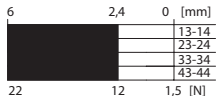
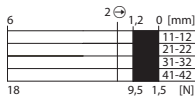
4 NC

4 NO

3 NC / 1 NO

1 NC / 3 NO

1 NC / 1 NO
overlapping

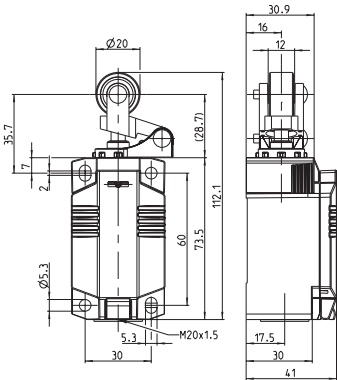


Position & Limit Switches

IN73 Series - Plastic Body

IN73-... HK

Replacement actuator: 3918202432



1 NC / 1 NO					2 NC					2 NO					2 NC / 2 NO									
Slow-action system					6081000026 IN73-11 HK					6081000028 IN73-20 HK					6081000030 IN73-02 HK					6081000032 IN73-22 HK				
Snap-action system					6081000025 IN73-S11 HK					6081000027 IN73-S20 HK					6081000029 IN73-S02 HK									

4 NC					4 NO					3 NC / 1 NO					1 NC / 3 NO					1 NC / 1 NO overlapping				
6081000033 IN73-40 HK					6081000034 IN73-04 HK					6081000035 IN73-31 HK					6081000036 IN73-13 HK					6081000031 IN73-V11 HK				

Position & Limit Switches

IN73 Series - Plastic Body



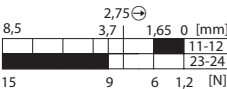
Replacement actuator: 3918202428

IN73-... DGHK

Slow-action system

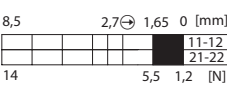
6081000038

IN73-11 DGHK



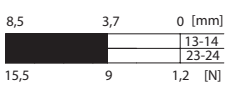
6081000040

IN73-20 DGHK



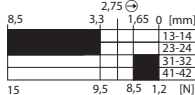
6081000042

IN73-02 DGHK



6081000044

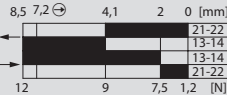
IN73-22 DGHK



Snap-action system

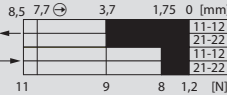
6081000037

IN73-S11 DGHK



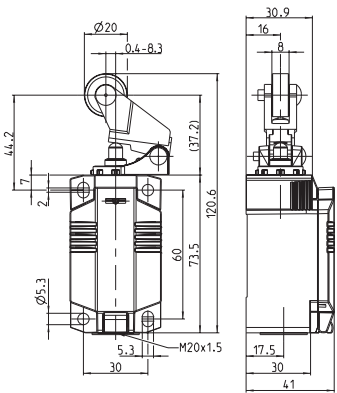
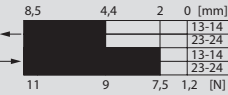
6081000039

IN73-S20 DGHK



6081000041

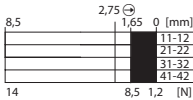
IN73-S02 DGHK



Slow-action system

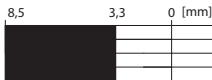
6081000045

IN73-40 DGHK



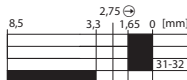
6081000046

IN73-04 DGHK



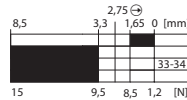
6081000047

IN73-31 DGHK



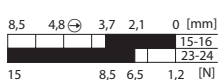
6081000048

IN73-13 DGHK

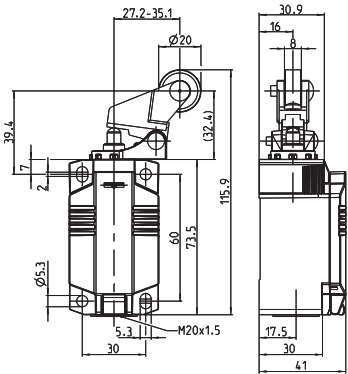


6081000043

IN73-V11 DGHK



Altech Corp.[®]
by **BERNSTEIN**



4 NC	4 NO	3 NC / 1 NO	1 NC / 3 NO	1 NC / 1 NO overlapping

Position & Limit Switches

IN73 Series - Plastic Body

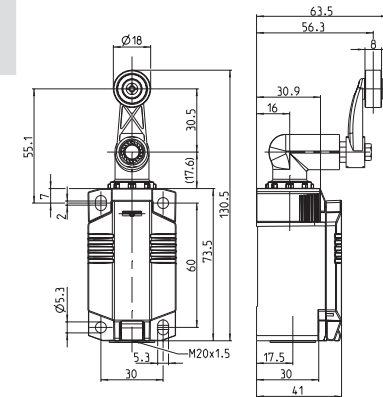


Replacement actuator: 3918352393

IN73-... AHK



	1 NC / 1 NO	2 NC	2 NO	2 NC / 2 NO
Slow-action system	6081000062 IN73-11 AHK 	6081000064 IN73-20 AHK 	6081000066 IN73-02 AHK 	6081000068 IN73-22 AHK
Snap-action system	6081000061 IN73-S11 AHK 	6081000063 IN73-S20 AHK 	6081000065 IN73-S02 AHK 	



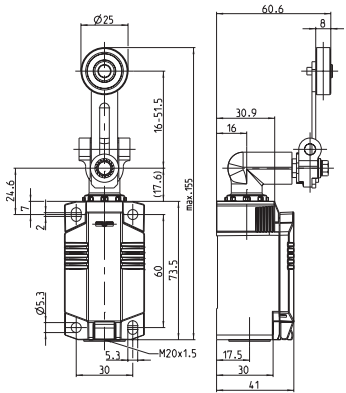
	4 NC	4 NO	3 NC / 1 NO	1 NC / 3 NO	1 NC / 1 NO overlapping
Slow-action system	6081000069 IN73-40 AHK 	6081000070 IN73-04 AHK 	6081000071 IN73-31 AHK 	6081000072 IN73-13 AHK 	6081000067 IN73-V11 AHK

Position & Limit Switches

IN73 Series - Plastic Body

IN73-... AVK

Replacement actuator: 3918362424



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

Position & Limit Switches

IN73 Series - Plastic Body

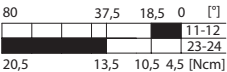


Replacement actuator: 3918372421

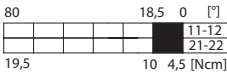
IN73-... AHDM

Slow-action system

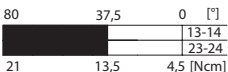
6081000086
IN73-11 AHDM



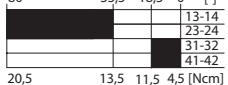
6081000088
IN73-20 AHDM



6081000090
IN73-02 AHDM

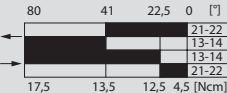


6081000092
IN73-22 AHDM

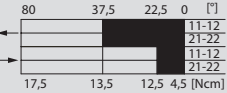


Snap-action system

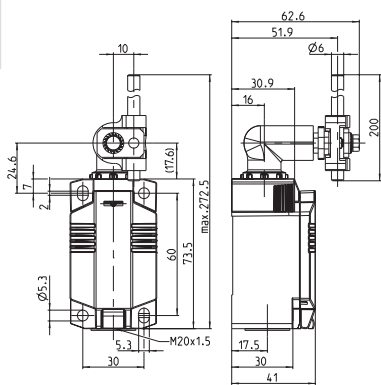
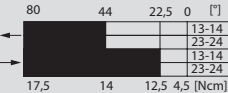
6081000085
IN73-S11 AHDM



6081000087
IN73-S20 AHDM

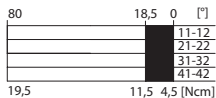


6081000089
IN73-S02 AHDM

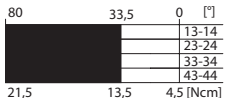


Slow-action system

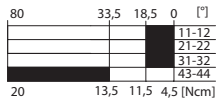
6081000093
IN73-40 AHDM



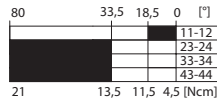
6081000094
IN73-04 AHDM



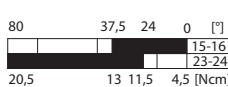
6081000095
IN73-31 AHDM



6081000096
IN73-13 AHDM



6081000091
IN73-V11 AHDM



IN73 Series - Plastic Body

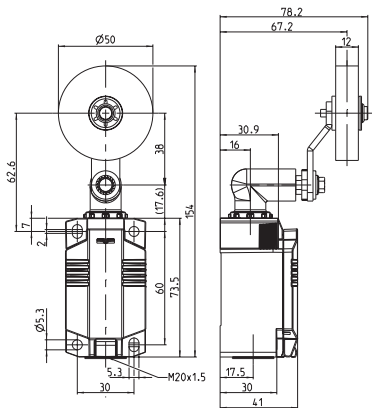


IN73-... AHGU RO50

Replacement actuator: 3918352422



	1 NC / 1 NO	2 NC	1 NC / 1 NO overlapping
Slow-action system	6081000109 IN73-11 AHGU Ro50	6081000110 IN73-20 AHGU Ro50	6081000111 IN73-V11 AHGU Ro50
Snap-action system	6081000108 IN73-S11 AHGU Ro50		



Position & Limit Switches

IN73 Series - Plastic Body

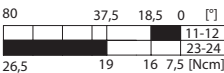


Replacement actuator: 3918362423

IN73-... AVGU RO50

Slow-action system

6081000105
IN73-11 AVGU Ro50



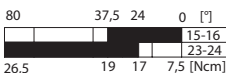
2 NC

6081000106
IN73-20 AVGU Ro50



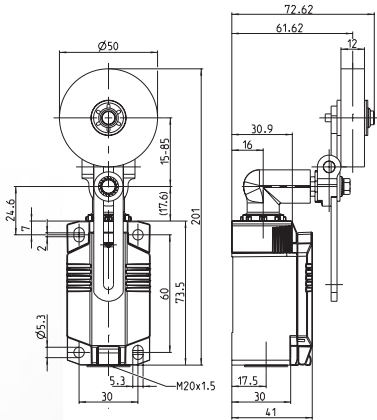
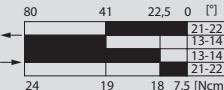
1 NC / 1 NO
overlapping

6081000107
IN73-V11 AVGU Ro50



Snap-action system

6081000104
IN73-S11 AVGU Ro50



Position & Limit Switches

IN73 Seperate Switch Body and Actuators



SM
3918022415
(Metal plunger)



RK
3918172416
(Plastic roller)



RM
3918172417
(Metal roller)



RP *
3911042418
(Pull switch attachment)



AHK
3918352393
(Plastic roller)



AHM
3918352419
(Metal roller)



AHDK
3918372420
(Plastic)



AHDM
3918372421
(Metal)



AHGU RO
3918352422
(Rubber roller)



AVGU RO
3918362423
(Rubber roller)



AVK
3918362424
(Plastic roller)



AVM
3918362425
(Metal roller)



AVZK
3918362426
(Plastic roller)



AVZM
3918362427
(Metal roller)



DGHK
3918202428
(Plastic roller)



DGHM
3918202429
(Metal roller)



DGKK
3918202430
(Plastic roller)



DGKM
3918202431
(Metal roller)



HK
3918202432
(Plastic roller)



HM
3918202433
(Metal roller)

IN73 partially assembled with a switching unit

		1 NC / 1 NO	2 NC	2 NO	2 NC / 2 NO
Slow-action system	M20	6081000113 IN73-11 M20	6081000115 IN73-20 M20	6081000117 IN73-02 M20	6081000119 IN73-22 M20
	M12	6081000126 IN73-11 03	6081000128 IN73-20 03	6081000130 IN73-02 03	6081000132 IN73-22 05
Snap-action system	M20	6081000112 IN73-S11 M20	6081000114 IN73-S20 M20	6081000116 IN73-S02 M20	
	M12	6081000125 IN73-S11 03	6081000127 IN73-S20 03	6081000129 IN73-S02 03	



		4 NC	4 NO	3 NC / 1 NO	1 NC / 3 NO	1 NC / 1 NO overlapping
Slow-action system	M20	6081000120 IN73-40 M20	6081000121 IN73-04 M20	6081000122 IN73-31 M20	6081000123 IN73-13 M20	6081000118 IN73-V11 M20
	M12	6081000133 IN73-40 05	6081000134 IN73-04 05	6081000135 IN73-31 05	6081000136 IN73-13 05	6081000131 IN73-V11 03

* Can only be used with slow-action systems.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Altech:

[608.1000.001](#) [608.1000.002](#) [608.1000.003](#) [608.1000.004](#) [608.1000.005](#) [608.1000.006](#) [608.1000.007](#)
[608.1000.008](#) [608.1000.009](#) [608.1000.010](#) [608.1000.011](#) [608.1000.012](#) [608.1000.013](#) [608.1000.014](#) [608.1000.015](#)
[608.1000.016](#) [608.1000.017](#) [608.1000.018](#) [608.1000.019](#) [608.1000.020](#) [608.1000.021](#) [608.1000.022](#)
[608.1000.023](#) [608.1000.024](#) [608.1000.025](#) [608.1000.026](#) [608.1000.027](#) [608.1000.028](#) [608.1000.029](#) [608.1000.030](#)
[608.1000.031](#) [608.1000.032](#) [608.1000.033](#) [608.1000.034](#) [608.1000.035](#) [608.1000.036](#) [608.1000.037](#)
[608.1000.038](#) [608.1000.039](#) [608.1000.040](#) [608.1000.041](#) [608.1000.042](#) [608.1000.043](#) [608.1000.044](#) [608.1000.045](#)
[608.1000.046](#) [608.1000.047](#) [608.1000.048](#) [608.1000.049](#) [608.1000.050](#) [608.1000.051](#) [608.1000.052](#)
[608.1000.053](#) [608.1000.054](#) [608.1000.055](#) [608.1000.056](#) [608.1000.057](#) [608.1000.058](#) [608.1000.059](#) [608.1000.060](#)
[608.1000.061](#) [608.1000.062](#) [608.1000.063](#) [608.1000.064](#) [608.1000.065](#) [608.1000.066](#) [608.1000.067](#)
[608.1000.068](#) [608.1000.069](#) [608.1000.070](#) [608.1000.071](#) [608.1000.072](#) [608.1000.073](#) [608.1000.074](#) [608.1000.075](#)
[608.1000.076](#) [608.1000.077](#) [608.1000.078](#) [608.1000.079](#) [608.1000.080](#) [608.1000.081](#) [608.1000.082](#)
[608.1000.083](#) [608.1000.084](#) [608.1000.085](#) [608.1000.086](#) [608.1000.087](#) [608.1000.088](#) [608.1000.089](#) [608.1000.090](#)
[608.1000.091](#) [608.1000.092](#) [608.1000.093](#) [608.1000.094](#) [608.1000.095](#) [608.1000.096](#) [608.1000.104](#)
[608.1000.105](#) [608.1000.106](#) [608.1000.107](#)