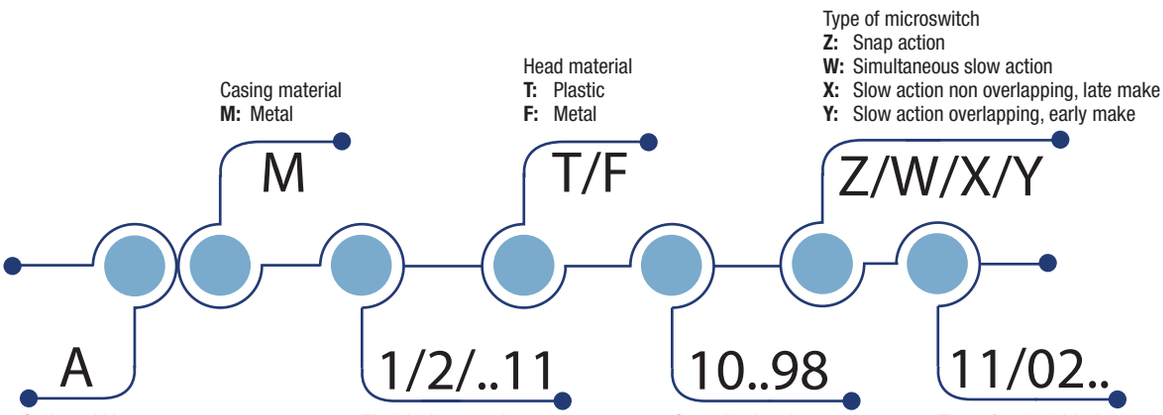
Limit Switches **AM series**

Summary

APPROVALS: UL 508 / CSA C22-2 N. 14 / IEC 60947-5-1

CB-SCHEME certification according to IEC 60947-5-1



Casing material
M: Metal

Head material
T: Plastic
F: Metal

Type of microswitch
Z: Snap action
W: Simultaneous slow action
X: Slow action non overlapping, late make
Y: Slow action overlapping, early make

Casing width
A: 30mm + 1 cable inlet

Electrical connection
1: PG13.5
2: 1/2 NPT
3: PG11
4: M16x1.5
5: M20x1.5
Metal M12 connector
7: 5 poles
8: 8 poles
Plastic M12 connector
10: 5 poles
11: 8 poles

Operating head

Type of contact block
11: 1NO + 1NC
20: 2NO
02: 2NC
12P: 1NO + 2NC
21P: 2NO + 1NC
03P: 3NC

HOW IS IT MADE?

01 A variety of actuators
- Plain plunger
- Roller plunger
- Roller lever, adjustable or not, etc.

02 Wide range of heads
- Assembled using 4 x ∅3 screws

03 Casing:
- 30 mm. width with standardized dimensions acc. to EN 50047

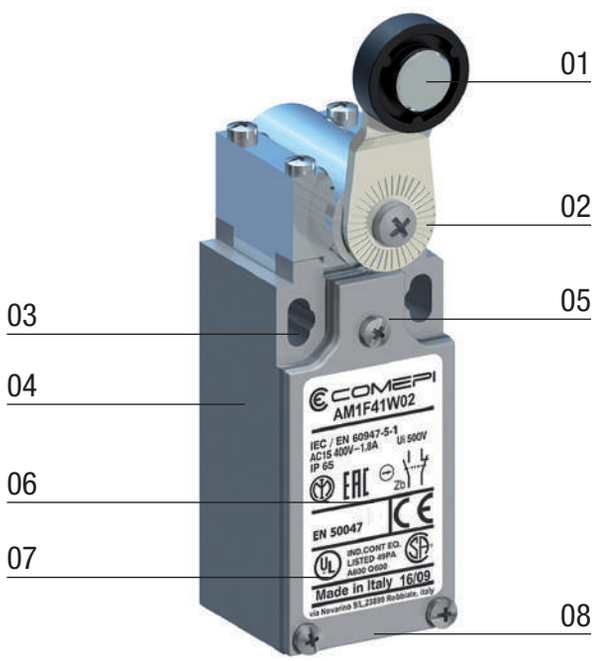
04 Mounting screws
- 2 or 4 x M4 screws on top part

05 Cover
- 3 screws ∅3 pozidriv 1

06 Contact Block
- Positive opening operation
- Snap action or slow action
- Electrically separated contacts

07 Connecting terminals
- Block of 2 contacts: M3.5 (+, –) pozidriv 2 screw
- Block of 3 contacts: M3 (+, –) screw
- Screw head with captive cable clamp
- Markings conform with IEC 60947-1, IEC 60947-5-1 standards

08 Electrical connection
- 1 x threaded cable entry suitable for cable gland, M12 connector or DEUTSCH connector



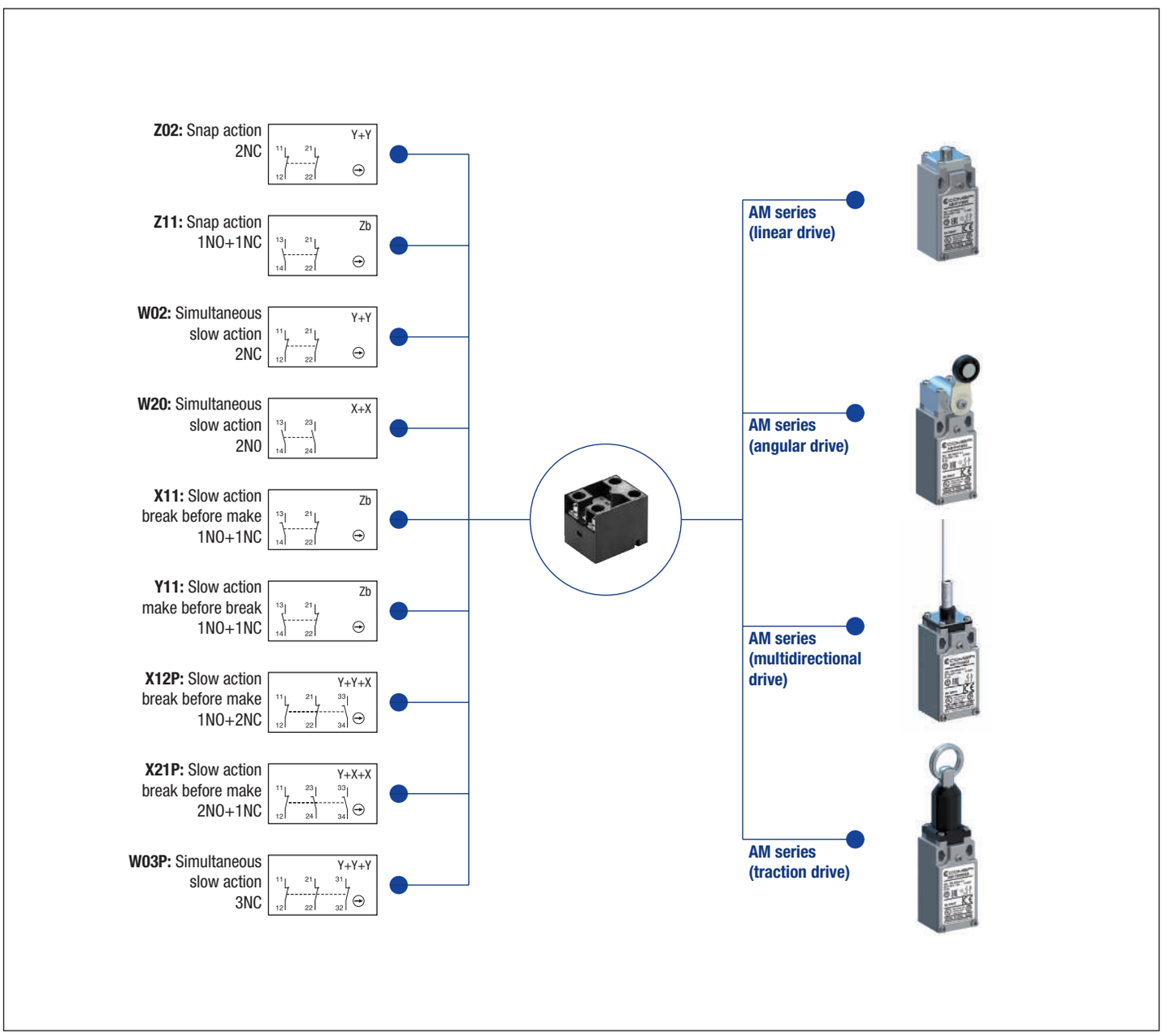
Limit Switches **AM series**
Description

APPLICATIONS
Easy to use, electromechanical limit switches offer specific qualities:
- Visible operation.
- Able to switch strong currents (10 A conventional thermal current).
- Electrically separated contacts.
- Precise operating points (consistency).
- Immune to electromagnetic disturbances.

They are purpose-built detection devices thanks to these characteristics:
- Presence/absence.
- Positioning and travel limit.
- Objects passing/counting.

DESCRIPTION
Limit switches, which are made of zinc alloy (Zamak), offer a degree of protection of IP66.

They comply with the requirements of European Directives (Low Voltage and RoHS) and are conform to European and International Standards.
The CE declaration of these products are available in the download section of website www.comepi.it or by writing to the following email address: tecnico@comepi.it
DDC02 - Limit Switches.



Limit Switches **AM series**
Technical Data

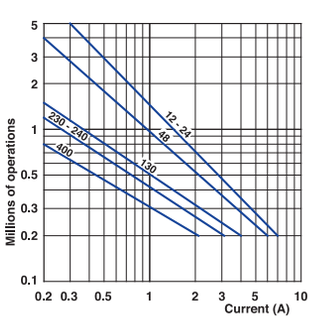
			AM Series
Standards			IEC 60947-5-1 EN 60947-5-1
Certifications - Approvals			UL - CSA - IMQ - EAC - CCC - UKCA
Air temperature near the device			
– during operation		°C	– 25 ... + 70
– for storage		°C	– 30 ... + 80
Mounting positions			All positions are authorised
Protection against electrical shocks (acc. to IEC 61140)			Class I
Degree of protection (according to IEC 60529 and EN 60529)			IP 66*

Electrical Data

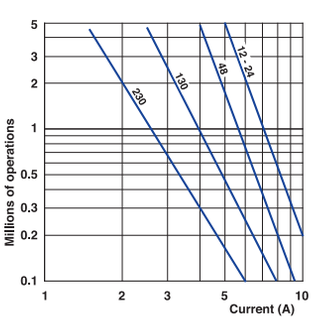
Rated insulation voltage U_i - according to IEC 60947-1 and EN 60947-1 - according to UL 508 and CSA C22-2 n° 14			500 V (degree of pollution 3) (400 V for contacts type Z02, X12P, X21P, W03P) A 300, Q 300
Rated impulse withstand voltage U_{imp} (according to IEC 60947-1 and EN 60947-1)		kV	6
Conventional free air thermal current I_{th} (according to IEC 60947-5-1) $\theta < 40$ °C		A	10
Short-circuit protection U_e < 500 V a.c. - gG (gl) type fuses		A	10
Rated operational current			
I_e / AC-15 (according to IEC 60947-5-1)	24 V - 50/60 Hz	A	10
	120 V - 50/60 Hz	A	6
	400 V - 50/60 Hz	A	4
I_e / DC-13 (according to IEC 60947-5-1)	24 V - d.c.	A	6
	125 V - d.c.	A	0.55
	250 V - d.c.	A	0.4
Switching frequency		Cycles/h	3600
Load factor			0.5
Resistance between contacts		mΩ	25
Connecting terminals			M3.5 (+, –) pozidriv 2 screw with cable clamp (M3 for 3 poles contacts type)
Terminal for protective conductor			M3.5 (+, –) pozidriv 2 screw with cable clamp
Recommended tightening torque			**Metal**
Cover			0,8Nm, max 0,9
Head			0,8Nm, max 0,9
Microswitch			0,8Nm, max 0,9
Connecting capacity		1 or 2 x mm^2	0.34 ... 2.5 (0.34... 1.5 for 3 poles contacts type)
Terminal marking			According to IEC 60947-5-1
Mechanical durability			15 millions of operations F11; F12; T21; T2101; T30...34; T38 10 millions of operations F41...46; F51...56; F61...75 >5 millions of operations T14; T35; T36; T39; T91...93; T98
Electrical durability (according to IEC 60947-5-1)			Utilization categories AC-15 and DC-13 (Load factor of 0.5 according to curves below)

* except for F52, F5200, F55, F5500, F73, F74, T92, T93: the degree of protection is IP65

AC-15 - Snap action



AC-15 - Slow action



DC-13		Snap action	Slow action
		Power breaking for a durability of 5 million operating cycles	
Voltage	24 V	9.5 W	12 W
Voltage	48 V	6.8 W	9 W
Voltage	110 V	3.6 W	6 W

Limit Switches **AM series**
Technical Data

Technical data approved by IMQ

Standards		Devices conform with international IEC 60947-5-1 and European EN 60947-5-1 standards
Degree of protection		IP 66*
Rated insulation voltage U_i		500 V (degree of pollution 3) (400V for type Z02, X12P, X21P, W03P)
Rated impulse withstand voltage U_{imp}		6 kV
Conventional free air thermal current I_{th}		10 A
Short-circuit protection - gG (gl) type fuses		10 A
Rated operational current		
I_e / AC-15	24 V - 50/60 Hz	10 A
	400 V - 50/60 Hz	4 A
I_e / DC-13	24 V - d.c.	6 A
	125 V - d.c.	0.55 A
	250 V - d.c.	0.4 A

* except for F52, F5200, F55, F5500, F73, F74, T92, T93: the degree of protection is IP65

Technical data approved by UL

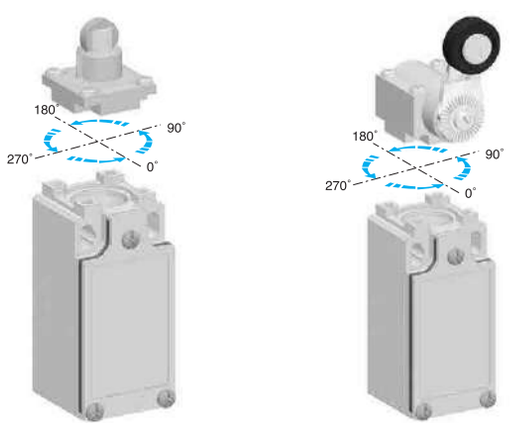
Standards	Devices conform with UL 508
Contact blocks type Z11, X11, Y11, W02 and Z02	
Utilization categories	A300, Q300
Contact blocks type X12P, X21P and W03P	
Utilization categories	A300, Q300

Use 60/75°C copper (Cu) conductor only. Wire rages 14-18 AWG stranded or solid. The terminal tightening torque of 7 lbs-in / 0.78 Nm. Suitable for conduit connection only with use of adapter sleeve optionally provided or recommended by the manufacturer.

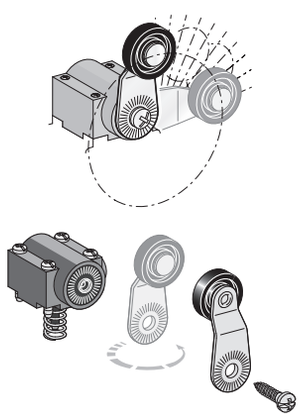
For the complete list of approved products, contact our technical department

IMPLEMENTATION

Operating head orientation
The head can be rotated each 90°.
Recommended tightening torque 0,5 Nm (max 0,8 Nm).

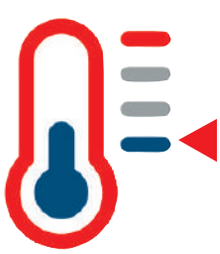


Lever adjustment
The lever of the angular actuators can be adjusted every 10° and round turned in order to obtain the maximum flexibility on the working plan.
Recommended tightening torque 0,5 Nm (max 0,8 Nm).



Special Versions

Plastic actuators
The operating heads used in plastic limit switches AP and DP series have the same dimensions of the ones used in the corresponding metal AM and DM series. It is therefore possible to supply "mixed" versions, that is:
- plastic operating head on metal casing
- metal operating head on plastic casing



Low Temperature
The limit switches for low temperature applications are useful for refrigerated cells or equipments where the air operational temperature is very low. These devices, made in special materials, are able to extend the operational temperature range down to -40°C, maintaining mechanical performances intact.
To order add the digits "40" following the operating head indication in part number.
For example: AM1F11Z11 ➧ AM1F1140Z11

Manual reset operating head
Limit switches equipped with special operating head with manual reset button.

For more information:

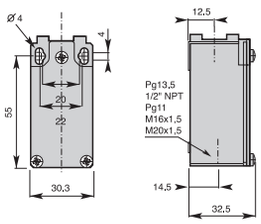
For further informations, please contact our technical department.

Limit Switches **AM_F/AM_T series**

Metal casing IP66 - 30 mm. width

Electrical connection:

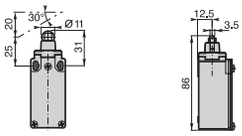
AM1: one cable inlet for PG 13,5 Cable Gland
AM2: one cable inlet by 1/2" NPT Plastic Adapter
AM3: one cable inlet for PG11 Cable Gland
AM4: one cable inlet for M16 x 1,5 Cable Gland
AM5: one cable inlet for M20 x 1,5 Cable Gland
AM7: 5 poles M12 metal connector
AM8: 8 poles M12 metal connector
AM10: 5 poles M12 plastic connector
AM11: 8 poles M12 plastic connector



F11 - Plain Metal plunger

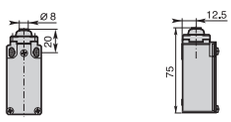
Conformity EN50047
Min. actuating force 15N (30N →)
Weight 180 g

F12 - Metal roller plunger



Conformity EN50047
Min. actuating force 12N (30N →)
Weight 190 g

T14 - Metal plunger with dust protection cup

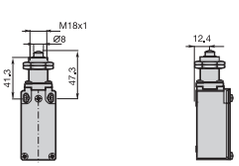


Conformity EN50047
Min. actuating force 15N (30N →)
Weight 165 g

Contact Blocks

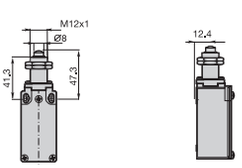
Z11	(1NO + 1NC)	AM•F11Z11	AM•F12Z11	AM•T14Z11
X11	(1NO + 1NC)	AM•F11X11	AM•F12X11	AM•T14X11
Y11	(1NO + 1NC)	AM•F11Y11	AM•F12Y11	AM•T14Y11
W02	(2NC)	AM•F11W02	AM•F12W02	AM•T14W02
W20	(2NO)	AM•F11W20	AM•F12W20	AM•T14W20
Z02	(2NC)	AM•F11Z02	AM•F12Z02	AM•T14Z02
X12P	(1NO + 2NC)	AM•F11X12P	AM•F12X12P	AM•T14X12P
X21P	(2NO + 1NC)	AM•F11X21P	AM•F12X21P	AM•T14X21P
W03P	(3NC)	AM•F11W03P	AM•F12W03P	AM•T14W03P

T21 - Plain plunger with M18x1 fixing nuts



Min. actuating force 15N (30N →)
Weight 175 g

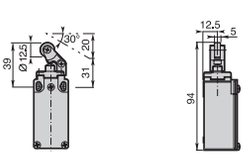
T2101 - Plain plunger with M12x1 fixing nuts



Min. actuating force 15N (30N →)
Weight 175 g

T3• - Plastic roller lever

T30: on plastic plunger T31: on metal plunger



Conformity EN50047
Min. actuating force 7N (24N →)
Weight 170 g

Contact Blocks

Z11	(1NO + 1NC)	AM•T21Z11	AM•T2101Z11	AM•T30Z11	AM•T31Z11
X11	(1NO + 1NC)	AM•T21X11	AM•T2101X11	AM•T30X11	AM•T31X11
Y11	(1NO + 1NC)	AM•T21Y11	AM•T2101Y11	AM•T30Y11	AM•T31Y11
W02	(2NC)	AM•T21W02	AM•T2101W02	AM•T30W02	AM•T31W02
W20	(2NO)	AM•T21W20	AM•T2101W20	AM•T30W20	AM•T31W20
Z02	(2NC)	AM•T21Z02	AM•T2101Z02	AM•T30Z02	AM•T31Z02
X12P	(1NO + 2NC)	AM•T21X12P	AM•T2101X12P	AM•T30X12P	AM•T31X12P
X21P	(2NO + 1NC)	AM•T21X21P	AM•T2101X21P	AM•T30X21P	AM•T31X21P
W03P	(3NC)	AM•T21W03P	AM•T2101W03P	AM•T30W03P	AM•T31W03P

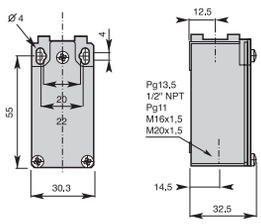
Operation diagrams: page 123 - All dimensions are in mm

Limit Switches **AM_F/AM_T series**

Metal casing IP66 - 30 mm. width

Electrical connection:

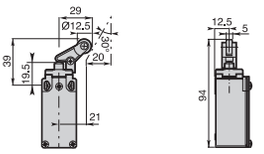
AM1: one cable inlet for PG 13,5 Cable Gland
AM2: one cable inlet by 1/2" NPT Plastic Adapter
AM3: one cable inlet for PG11 Cable Gland
AM4: one cable inlet for M16 x 1,5 Cable Gland
AM5: one cable inlet for M20 x 1,5 Cable Gland
AM7: 5 poles M12 metal connector
AM8: 8 poles M12 metal connector
AM10: 5 poles M12 plastic connector
AM11: 8 poles M12 plastic connector



Contact Blocks

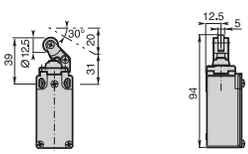
T3• - Plastic roller lever

T32: on metal plunger T34: on plastic plunger



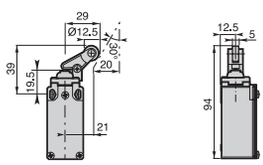
Min. actuating force 7N (24N ⇾)
Weight 175 g

T35 - Plastic roller lever on metal plunger with dust protection cup



Conformity EN50047
Min. actuating force 7N (24N ⇾)
Weight 170 g

T36 - Plastic roller lever on metal plunger with dust protection cup

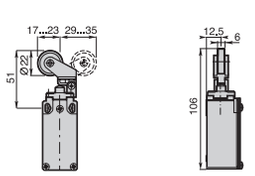


Min. actuating force 7N (24N ⇾)
Weight 175 g

Z11	(1NO + 1NC)	AM•T32Z11	AM•T34Z11	AM•T35Z11	AM•T36Z11
X11	(1NO + 1NC)	AM•T32X11	AM•T34X11	AM•T35X11	AM•T36X11
Y11	(1NO + 1NC)	AM•T32Y11	AM•T34Y11	AM•T35Y11	AM•T36Y11
W02	(2NC)	AM•T32W02	AM•T34W02	AM•T35W02	AM•T36W02
W20	(2NO)	AM•T32W20	AM•T34W20	AM•T35W20	AM•T36W20
Z02	(2NC)	AM•T32Z02	AM•T34Z02	AM•T35Z02	AM•T36Z02
X12P	(1NO + 2NC)	AM•T32X12P	AM•T34X12P	AM•T35X12P	AM•T36X12P
X21P	(2NO + 1NC)	AM•T32X21P	AM•T34X21P	AM•T35X21P	AM•T36X21P
W03P	(3NC)	AM•T32W03P	AM•T34W03P	AM•T35W03P	AM•T36W03P

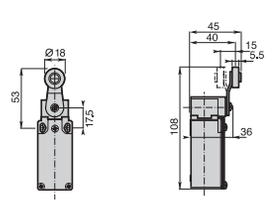
T3• Adjustable plastic roller lever

T38: on metal plunger T39: with dust protection cup



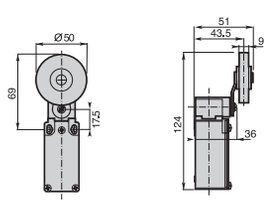
Conformity EN50047
Min. actuating force 7N (24N ⇾)
Weight 175 g

F41 - Ø 18 nylon roller lever



Conformity EN50047
Min. actuating torque 0,10Nm (0,32Nm ⇾)
Weight 235 g

F42 - Ø 50 rubber roller lever



Min. actuating torque 0,10Nm (0,32Nm ⇾)
Weight 255 g

Contact Blocks

Z11	(1NO + 1NC)	AM•T38Z11	AM•T39Z11	AM•F41Z11	AM•F42Z11
X11	(1NO + 1NC)	AM•T38X11	AM•T39X11	AM•F41X11	AM•F42X11
Y11	(1NO + 1NC)	AM•T38Y11	AM•T39Y11	AM•F41Y11	AM•F42Y11
W02	(2NC)	AM•T38W02	AM•T39W02	AM•F41W02	AM•F42W02
W20	(2NO)	AM•T38W20	AM•T39W20	AM•F41W20	AM•F42W20
Z02	(2NC)	AM•T38Z02	AM•T39Z02	AM•F41Z02	AM•F42Z02
X12P	(1NO + 2NC)	AM•T38X12P	AM•T39X12P	AM•F41X12P	AM•F42X12P
X21P	(2NO + 1NC)	AM•T38X21P	AM•T39X21P	AM•F41X21P	AM•F42X21P
W03P	(3NC)	AM•T38W03P	AM•T39W03P	AM•F41W03P	AM•F42W03P

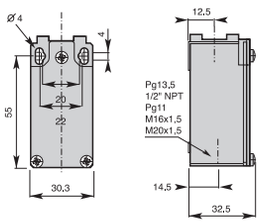
Operation diagrams: page 123 - All dimensions are in mm

Limit Switches **AM_F/AM_T series**

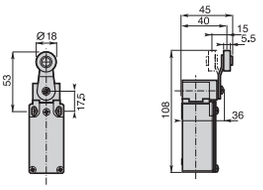
Metal casing IP66 - 30 mm. width

Electrical connection:

AM1: one cable inlet for PG 13,5 Cable Gland
AM2: one cable inlet by 1/2" NPT Plastic Adapter
AM3: one cable inlet for PG11 Cable Gland
AM4: one cable inlet for M16 x 1,5 Cable Gland
AM5: one cable inlet for M20 x 1,5 Cable Gland
AM7: 5 poles M12 metal connector
AM8: 8 poles M12 metal connector
AM10: 5 poles M12 plastic connector
AM11: 8 poles M12 plastic connector

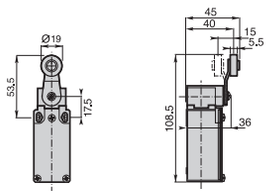


F43 - Ø 18 metal roller lever



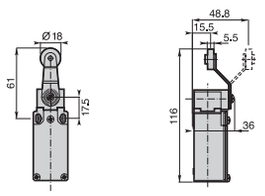
Conformity EN50047
Min. actuating torque 0,10Nm (0,32Nm ⊖)
Weight 240 g

F44 - Ø 19 steel ball bearing roller lever



Conformity EN50047
Min. actuating torque 0,10Nm (0,32Nm ⊖)
Weight 240 g

F45 - Ø 18 nylon roller lever

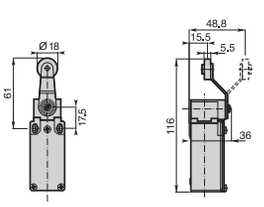


Min. actuating torque 0,10Nm (0,32Nm ⊖)
Weight 250 g

Contact Blocks

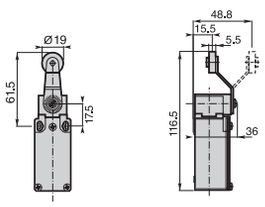
Z11	(1NO + 1NC)	AM•F43Z11	AM•F44Z11	AM•F45Z11
X11	(1NO + 1NC)	AM•F43X11	AM•F44X11	AM•F45X11
Y11	(1NO + 1NC)	AM•F43Y11	AM•F44Y11	AM•F45Y11
W02	(2NC)	AM•F43W02	AM•F44W02	AM•F45W02
W20	(2NO)	AM•F43W20	AM•F44W20	AM•F45W20
Z02	(2NC)	AM•F43Z02	AM•F44Z02	AM•F45Z02
X12P	(1NO + 2NC)	AM•F43X12P	AM•F44X12P	AM•F45X12P
X21P	(2NO + 1NC)	AM•F43X21P	AM•F44X21P	AM•F45X21P
W03P	(3NC)	AM•F43W03P	AM•F44W03P	AM•F45W03P

F46 - Ø 18 metal roller lever



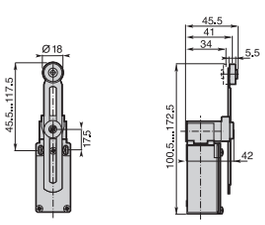
Min. actuating torque 0,10Nm (0,32Nm ⊖)
Weight 255 g

F47 - Ø 19 steel ball bearing roller lever



Min. actuating torque 0,10Nm (0,32Nm ⊖)
Weight 255 g

F51- Adjustable lever with Ø 18 nylon roller



Min. actuating torque 0,10Nm (0,32Nm ⊖)
Weight 250 g

Contact Blocks

Z11	(1NO + 1NC)	AM•F46Z11	AM•F47Z11	AM•F51Z11
X11	(1NO + 1NC)	AM•F46X11	AM•F47X11	AM•F51X11
Y11	(1NO + 1NC)	AM•F46Y11	AM•F47Y11	AM•F51Y11
W02	(2NC)	AM•F46W02	AM•F47W02	AM•F51W02
W20	(2NO)	AM•F46W20	AM•F47W20	AM•F51W20
Z02	(2NC)	AM•F46Z02	AM•F47Z02	AM•F51Z02
X12P	(1NO + 2NC)	AM•F46X12P	AM•F47X12P	AM•F51X12P
X21P	(2NO + 1NC)	AM•F46X21P	AM•F47X21P	AM•F51X21P
W03P	(3NC)	AM•F46W03P	AM•F47W03P	AM•F51W03P

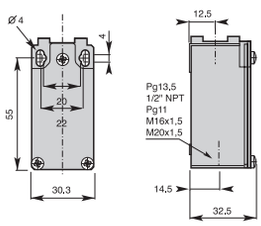
Operation diagrams: page 123 - All dimensions are in mm

Limit Switches **AM_F/AM_T series**

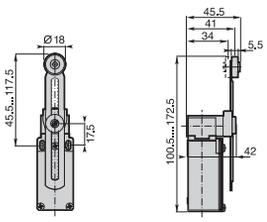
Metal casing IP66 - 30 mm. width

Electrical connection:

AM1: one cable inlet for PG 13,5 Cable Gland
AM2: one cable inlet by 1/2" NPT Plastic Adapter
AM3: one cable inlet for PG11 Cable Gland
AM4: one cable inlet for M16 x 1,5 Cable Gland
AM5: one cable inlet for M20 x 1,5 Cable Gland
AM7: 5 poles M12 metal connector
AM8: 8 poles M12 metal connector
AM10: 5 poles M12 plastic connector
AM11: 8 poles M12 plastic connector

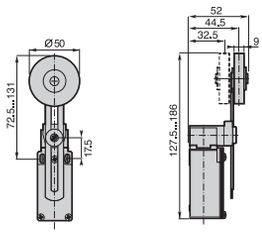


F5100 - Adjustable toothed lever (step 2 mm) with Ø 18 nylon roller



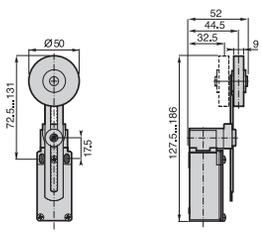
Min. actuating torque 0,10Nm (0,32Nm ⊖)
Weight 250 g

F52 - Adjustable lever with Ø 50 rubber roller



Min. actuating torque 0,10Nm (0,32Nm ⊖)
Weight 265 g

F5200 - Adjustable toothed lever (step 2 mm) with Ø 50 rubber roller

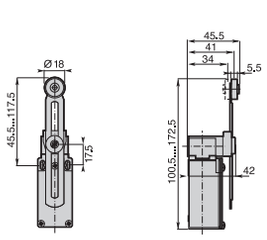


Min. actuating torque 0,10Nm (0,32Nm ⊖)
Weight 265 g

Contact Blocks

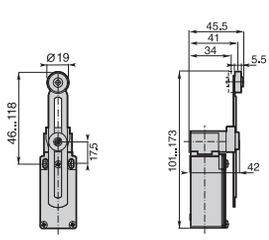
Z11	(1NO + 1NC)	AM•F5100Z11	AM•F52Z11	AM•F5200Z11
X11	(1NO + 1NC)	AM•F5100X11	AM•F52X11	AM•F5200X11
Y11	(1NO + 1NC)	AM•F5100Y11	AM•F52Y11	AM•F5200Y11
W02	(2NC)	AM•F5100W02	AM•F52W02	AM•F5200W02
W20	(2NO)	AM•F5100W20	AM•F52W20	AM•F5200W20
Z02	(2NC)	AM•F5100Z02	AM•F52Z02	AM•F5200Z02
X12P	(1NO + 2NC)	AM•F5100X12P	AM•F52X12P	AM•F5200X12P
X21P	(2NO + 1NC)	AM•F5100X21P	AM•F52X21P	AM•F5200X21P
W03P	(3NC)	AM•F5100W03P	AM•F52W03P	AM•F5200W03P

F53 - Adjustable lever with Ø 18 metal roller



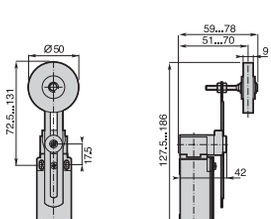
Min. actuating torque 0,10Nm (0,32Nm ⊖)
Weight 255 g

F54 - Adjustable lever with Ø 19 steel ball bearing roller



Min. actuating torque 0,10Nm (0,32Nm ⊖)
Weight 255 g

F55 - Adjustable lever with adjustable Ø 50 rubber roller



Min. actuating torque 0,10Nm (0,32Nm ⊖)
Weight 265 g

Contact Blocks

Z11	(1NO + 1NC)	AM•F53Z11	AM•F54Z11	AM•F55Z11
X11	(1NO + 1NC)	AM•F53X11	AM•F54X11	AM•F55X11
Y11	(1NO + 1NC)	AM•F53Y11	AM•F54Y11	AM•F55Y11
W02	(2NC)	AM•F53W02	AM•F54W02	AM•F55W02
W20	(2NO)	AM•F53W20	AM•F54W20	AM•F55W20
Z02	(2NC)	AM•F53Z02	AM•F54Z02	AM•F55Z02
X12P	(1NO + 2NC)	AM•F53X12P	AM•F54X12P	AM•F55X12P
X21P	(2NO + 1NC)	AM•F53X21P	AM•F54X21P	AM•F55X21P
W03P	(3NC)	AM•F53W03P	AM•F54W03P	AM•F55W03P

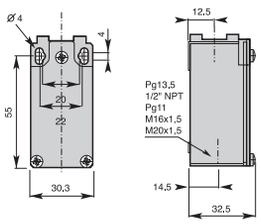
Operation diagrams: page 123 - All dimensions are in mm

Limit Switches **AM_F/AM_T series**

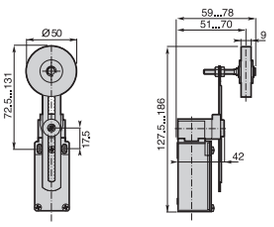
Metal casing IP66 - 30 mm. width

Electrical connection:

AM1: one cable inlet for PG 13,5 Cable Gland
AM2: one cable inlet by 1/2" NPT Plastic Adapter
AM3: one cable inlet for PG11 Cable Gland
AM4: one cable inlet for M16 x 1,5 Cable Gland
AM5: one cable inlet for M20 x 1,5 Cable Gland
AM7: 5 poles M12 metal connector
AM8: 8 poles M12 metal connector
AM10: 5 poles M12 plastic connector
AM11: 8 poles M12 plastic connector

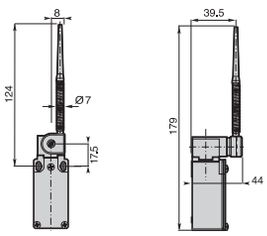


F5500 - Adjustable toothed lever (step 2 mm) with Ø 50 rubber roller



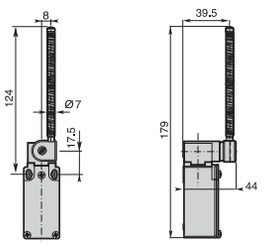
Min. actuating torque 0,10Nm (0,32Nm ⊖)
Weight 265 g

F61 - Nylon actuator with stainless steel spring



Min. actuating torque 0,10Nm
Weight 245 g

F62 - Stainless steel spring actuator

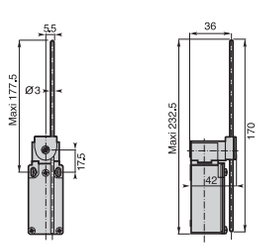


Min. actuating torque 0,10Nm
Weight 245 g

Contact Blocks

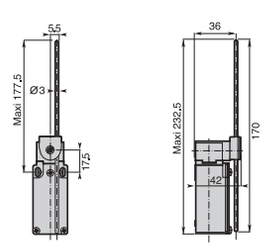
Z11	(1NO + 1NC)	AM•F5500Z11	AM•F61Z11	AM•F62Z11
X11	(1NO + 1NC)	AM•F5500X11	AM•F61X11	AM•F62X11
Y11	(1NO + 1NC)	AM•F5500Y11	AM•F61Y11	AM•F62Y11
W02	(2NC)	AM•F5500W02	AM•F61W02	AM•F62W02
W20	(2NO)	AM•F5500W20	AM•F61W20	AM•F62W20
Z02	(2NC)	AM•F5500Z02	AM•F61Z02	AM•F62Z02
X12P	(1NO + 2NC)	AM•F5500X12P	AM•F61X12P	AM•F62X12P
X21P	(2NO + 1NC)	AM•F5500X21P	AM•F61X21P	AM•F62X21P
W03P	(3NC)	AM•F5500W03P	AM•F61W03P	AM•F62W03P

F71 - Adjustable Ø 3 rod lever with stainless steel rod



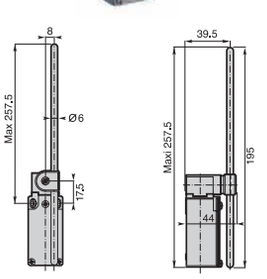
Min. actuating torque 0,10Nm (0,32Nm ⊖)
Weight 245 g

T72 - Adjustable Ø 3 rod lever with fiberglass rod



Min. actuating torque 0,10Nm (0,32Nm ⊖)
Weight 245 g

T73 - Adjustable Ø 6 rod lever with nylon rod



Min. actuating torque 0,10Nm (0,32Nm ⊖)
Weight 255 g

Contact Blocks

Z11	(1NO + 1NC)	AM•F71Z11	AM•F72Z11	AM•F73Z11
X11	(1NO + 1NC)	AM•F71X11	AM•F72X11	AM•F73X11
Y11	(1NO + 1NC)	AM•F71Y11	AM•F72Y11	AM•F73Y11
W02	(2NC)	AM•F71W02	AM•F72W02	AM•F73W02
W20	(2NO)	AM•F71W20	AM•F72W20	AM•F73W20
Z02	(2NC)	AM•F71Z02	AM•F72Z02	AM•F73Z02
X12P	(1NO + 2NC)	AM•F71X12P	AM•F72X12P	AM•F73X12P
X21P	(2NO + 1NC)	AM•F71X21P	AM•F72X21P	AM•F73X21P
W03P	(3NC)	AM•F71W03P	AM•F72W03P	AM•F73W03P

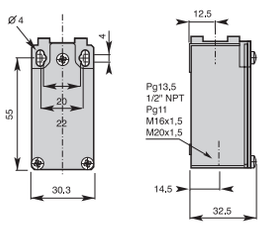
Operation diagrams: page 123 - All dimensions are in mm

Limit Switches **AM_F/AM_T series**

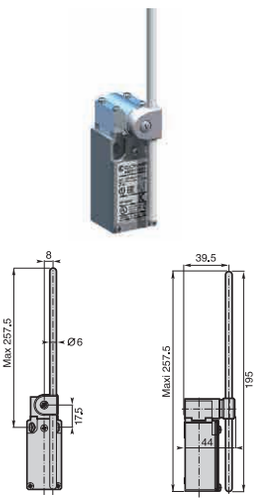
Metal casing IP66 - 30 mm. width

Electrical connection:

AM1: one cable inlet for PG 13,5 Cable Gland
AM2: one cable inlet by 1/2" NPT Plastic Adapter
AM3: one cable inlet for PG11 Cable Gland
AM4: one cable inlet for M16 x 1,5 Cable Gland
AM5: one cable inlet for M20 x 1,5 Cable Gland
AM7: 5 poles M12 metal connector
AM8: 8 poles M12 metal connector
AM10: 5 poles M12 plastic connector
AM11: 8 poles M12 plastic connector

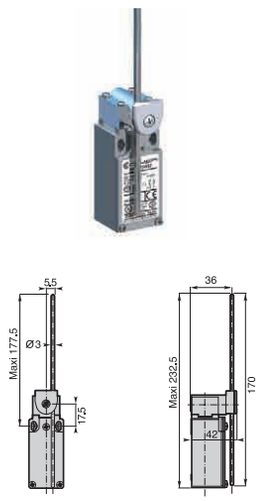


F74 - Adjustable Ø 6 rod lever with fiberglass rod



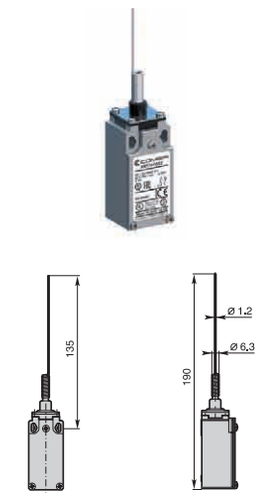
Min. actuating torque 0,10Nm (0,32Nm ⊖)
Weight 255 g

T75 - Adjustable 3x3 square steel rod lever



Min. actuating torque 0,10Nm (0,32Nm ⊖)
Weight 245 g

T91 - Stainless steel spring multidirectional actuator

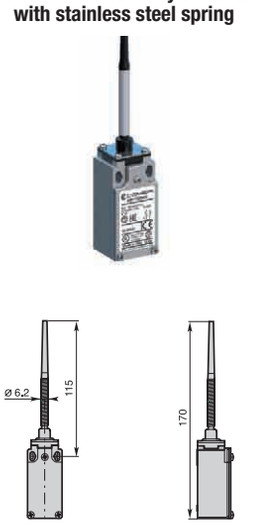


Min. actuating torque 0,12Nm
Weight 175 g

Contact Blocks

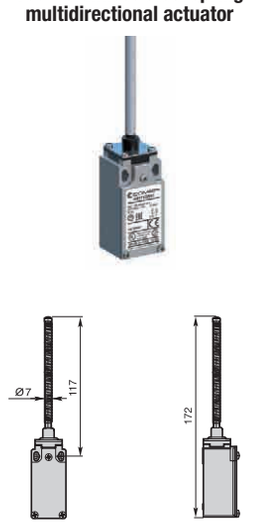
Z11	(1NO + 1NC)	AM•F74Z11	AM•F75Z11	AM•T91Z11
X11	(1NO + 1NC)	AM•F74X11	AM•F75X11	AM•T91X11
Y11	(1NO + 1NC)	AM•F74Y11	AM•F75Y11	AM•T91Y11
W02	(2NC)	AM•F74W02	AM•F75W02	AM•T91W02
W20	(2NO)	AM•F74W20	AM•F75W20	AM•T91W20
Z02	(2NC)	AM•F74Z02	AM•F75Z02	AM•T91Z02
X12P	(1NO + 2NC)	AM•F74X12P	AM•F75X12P	AM•T91X12P
X21P	(2NO + 1NC)	AM•F74X21P	AM•F75X21P	AM•T91X21P
W03P	(3NC)	AM•F74W03P	AM•F75W03P	AM•T91W03P

T92 - Multidirectional nylon actuator with stainless steel spring



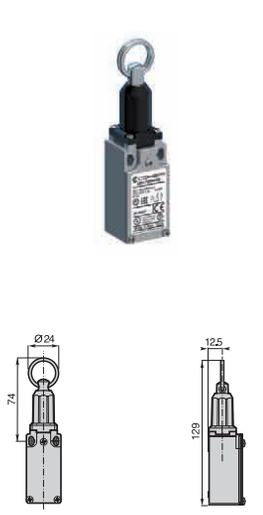
Min. actuating torque 0,12Nm
Weight 180 g

T93 - Stainless steel spring multidirectional actuator



Min. actuating torque 0,12Nm
Weight 185 g

T98 - Pull action with ring



Min. actuating force 30N
Weight 210 g

Contact Blocks

Z11	(1NO + 1NC)	AM•T92Z11	AM•T93Z11	AM•T98Z11A
X11	(1NO + 1NC)	AM•T92X11	AM•T93X11	AM•T98X11A
Y11	(1NO + 1NC)	AM•T92Y11	AM•T93Y11	AM•T98Y11A
W02	(2NC)	AM•T92W02	AM•T93W02	AM•T98W02A
W20	(2NO)	AM•T92W20	AM•T93W20	AM•T98W20A
Z02	(2NC)	AM•T92Z02	AM•T93Z02	
X12P	(1NO + 2NC)	AM•T92X12P	AM•T93X12P	
X21P	(2NO + 1NC)	AM•T92X21P	AM•T93X21P	
W03P	(3NC)	AM•T92W03P	AM•T93W03P	

Operation diagrams: page 123 - All dimensions are in mm