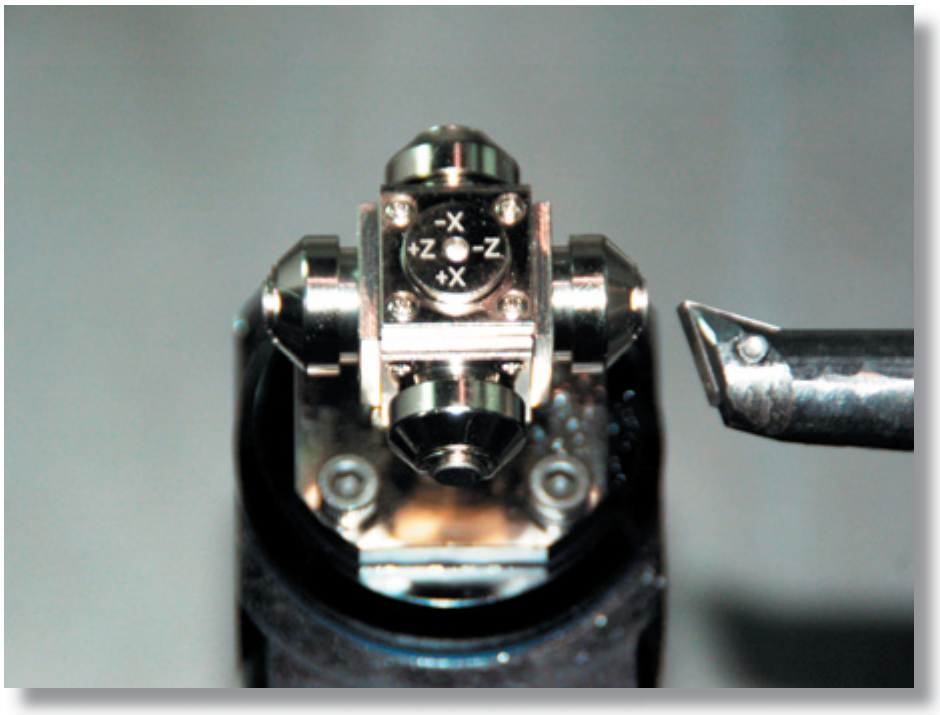
A90K line



THE RANGE OF PROBES FOR TOOL CHECKS ON LATHES

The A90K line represents a complete range of compact probes for tool checks on lathes.
They may be used for the following checks:

- Tool breakage, in order to avoid damaging the workpieces and the machines, and the resulting production delays.
- Tool length
- Tool wear compensation, in order optimise working life
- Determining tool offsets in order to reduce set-up times and eliminate the need to pre-set the tools before mounting them in the machine

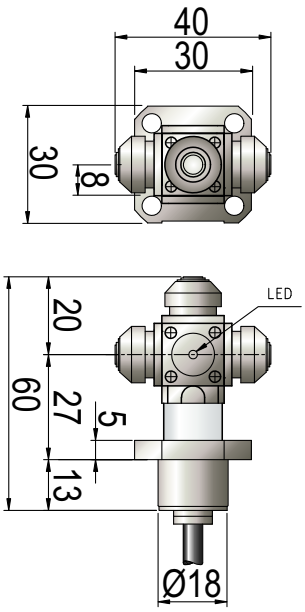
A90K probes offer excellent repeatability at high touch speeds, which increases production quality and reduces cycle times significantly, and this means that they represent the ideal solution for mass production and unmonitored processing applications..

The IP67 protection class (IEC 60529) guarantees high performance even in hostile machining environments.

Main Characteristics

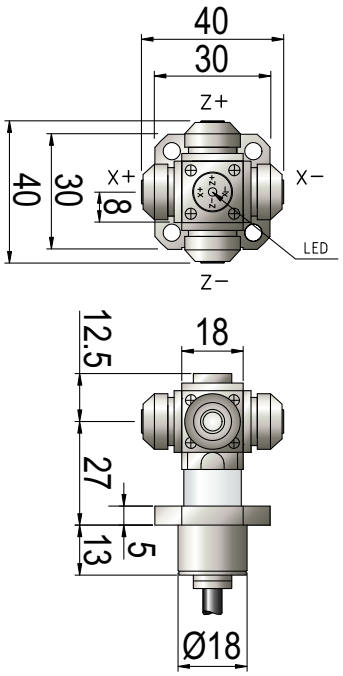
- Excellent repeatability
- Reduced cycle times
- Immunity to machine vibration
- Highly resistant to coolants
- High reliability

Q3PA9012102



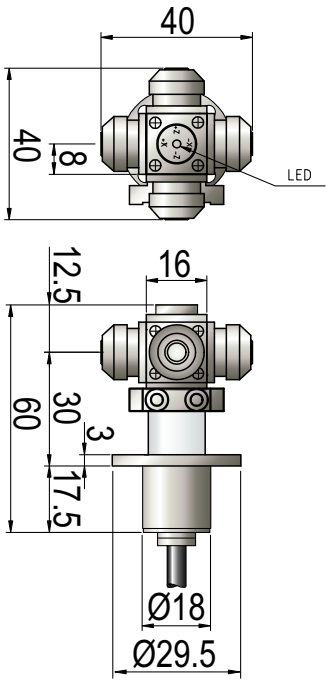
NUMBER OF CONTACTS	3
TOTAL STROKE	2 mm
CLEANING AIR	No
REPEATABILITY (2σ)	1 µm
MEASUREMENT FORCE	2÷3 N
OPERATING MODE	Norm. Closed (NC)
TOUCH SPEED	50÷200 mm/min
POWER SUPPLY	24 Vdc - 20mA max
PRESENCE LED	Yes - Norm. ON
OVERTRAVEL SIGNAL	No
BUILT-IN INTERFACE	No
CABLE *1 = lower / 2 = side*	1
PROTECTION DEGREE *(Standard IEC 60529)*	IP67

Q3PA9012101



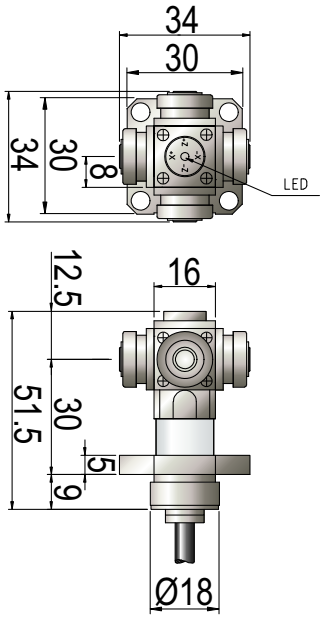
NUMBER OF CONTACTS	4
TOTAL STROKE	2 mm
CLEANING AIR	No
REPEATABILITY (2σ)	1 µm
MEASUREMENT FORCE	2÷3 N
OPERATING MODE	Norm. closed (NC)
TOUCH SPEED	50÷200 mm/min
POWER SUPPLY	24 Vdc - 20mA max
PRESENCE LED	Yes - Norm. ON
OVERTRAVEL SIGNAL	No
BUILT-IN INTERFACE	No
CABLE *1 = lower / 2 = side*	1
PROTECTION DEGREE *(Standard IEC 60529)*	IP67

Q3PA9012111



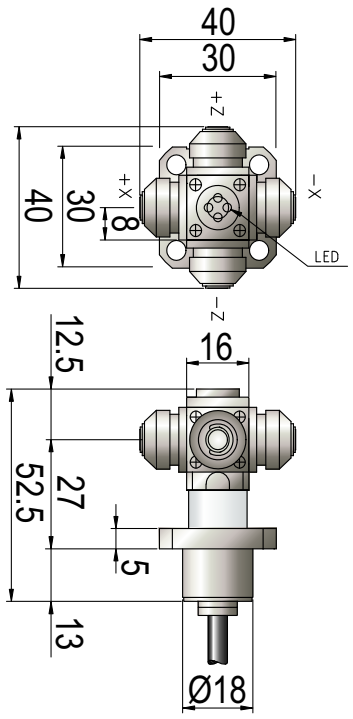
NUMBER OF CONTACTS	4
TOTAL STROKE	2 mm
CLEANING AIR	No
REPEATABILITY (2σ)	1 µm
MEASUREMENT FORCE	2÷3 N
OPERATING MODE	Norm. closed (NC)
TOUCH SPEED	50÷200 mm/min
POWER SUPPLY	24 Vdc - 20mA max
PRESENCE LED	Yes - Norm. ON
OVERTRAVEL SIGNAL	No
BUILT-IN INTERFACE	No
CABLE *1 = lower / 2 = side*	1
PROTECTION DEGREE *(Standard IEC 60529)*	IP67

Q3PA9013121



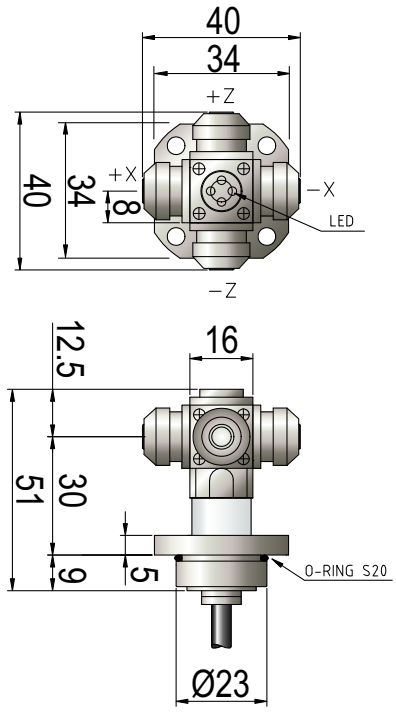
NUMBER OF CONTACTS	4
TOTAL STROKE	2 mm
CLEANING AIR	No
REPEATABILITY (2σ)	1 µm
MEASUREMENT FORCE	2÷3 N
OPERATING MODE	Norm. closed (NC)
TOUCH SPEED	50÷200 mm/min
POWER SUPPLY	24 Vdc - 20mA max
PRESENCE LED	Yes - Norm. ON
OVERTRAVEL SIGNAL	No
BUILT-IN INTERFACE	Yes
CABLE *1 = lower / 2 = side*	1
PROTECTION DEGREE *(Standard IEC 60529)*	IP67

Q3PA9015103



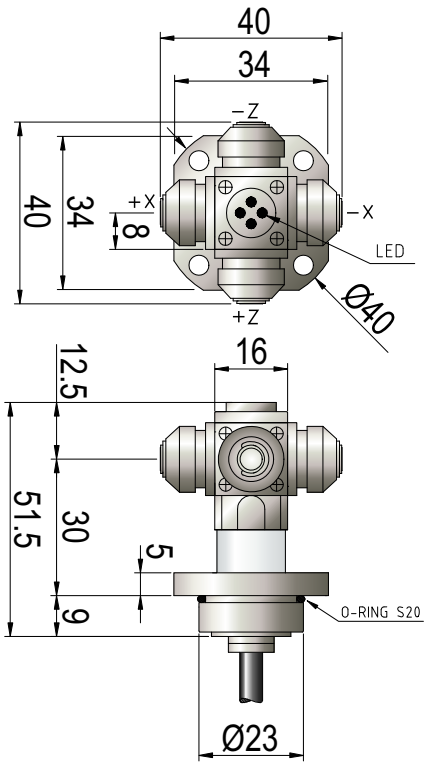
NUMBER OF CONTACTS	4
TOTAL STROKE	2 mm
CLEANING AIR	No
REPEATABILITY (2σ)	1 µm
MEASUREMENT FORCE	2÷3 N
OPERATING MODE	Norm. closed (NC)
TOUCH SPEED	50÷200 mm/min
POWER SUPPLY	24 Vdc - 20mA max
PRESENCE LED	Yes - Norm. OFF
OVERTRAVEL SIGNAL	No
BUILT-IN INTERFACE	No
CABLE *1 = lower / 2 = side*	1
PROTECTION DEGREE *(Standard IEC 60529)*	IP67

Q3PA9015114



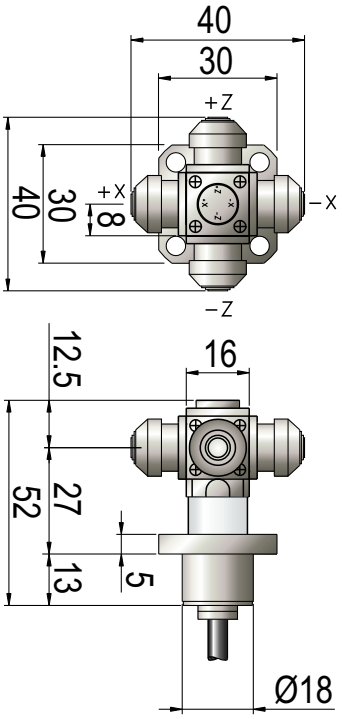
NUMBER OF CONTACTS	4
TOTAL STROKE	2 mm
CLEANING AIR	No
REPEATABILITY (2σ)	1 µm
MEASUREMENT FORCE	2÷3 N
OPERATING MODE	Norm. closed (NC)
TOUCH SPEED	50÷200 mm/min
POWER SUPPLY	24 Vdc - 20mA max
PRESENCE LED	Yes - Norm. OFF
OVERTRAVEL SIGNAL	No
BUILT-IN INTERFACE	No
CABLE *1 = lower / 2 = side*	1
PROTECTION DEGREE *(Standard IEC 60529)*	IP67

Q3PA9015115



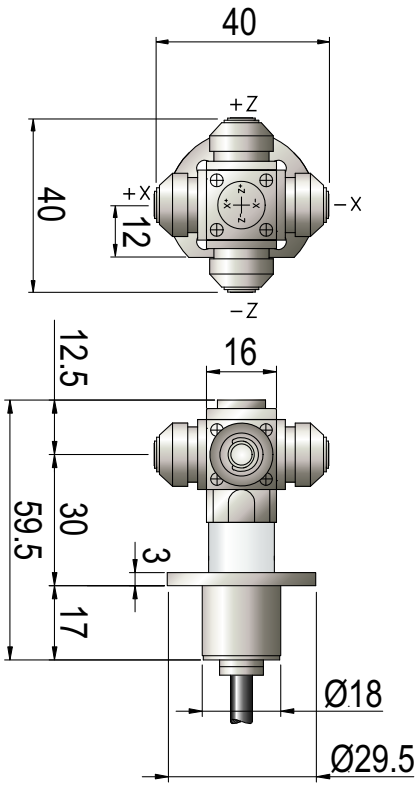
NUMBER OF CONTACTS	4
TOTAL STROKE	2 mm
CLEANING AIR	No
REPEATABILITY (2σ)	1 µm
MEASUREMENT FORCE	2÷3 N
OPERATING MODE	Norm. closed (NC)
TOUCH SPEED	50÷200 mm/min
POWER SUPPLY	24 Vdc - 20mA max
PRESENCE LED	Yes - Norm. OFF
OVERTRAVEL SIGNAL	No
BUILT-IN INTERFACE	No
CABLE *1 = lower / 2 = side*	1
PROTECTION DEGREE *(Standard IEC 60529)*	IP67

Q3PA9012016



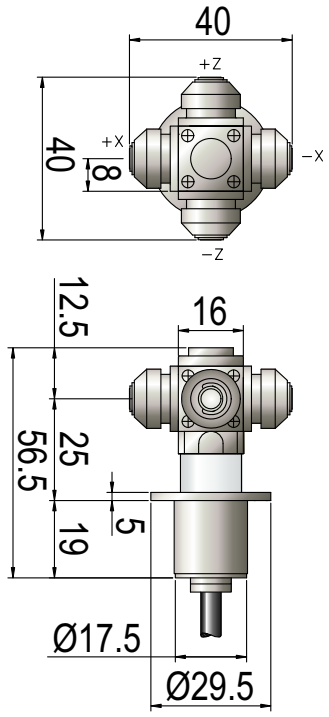
NUMBER OF CONTACTS	4
TOTAL STROKE	2 mm
CLEANING AIR	No
REPEATABILITY (2σ)	1 µm
MEASUREMENT FORCE	2÷3 N
OPERATING MODE	Norm. closed (NC)
TOUCH SPEED	50÷200 mm/min
POWER SUPPLY	24 Vdc - 20mA max
PRESENCE LED	No
OVERTRAVEL SIGNAL	No
BUILT-IN INTERFACE	No
CABLE *1 = lower / 2 = side*	1
PROTECTION DEGREE *(Standard IEC 60529)*	IP67

Q3PA9012012



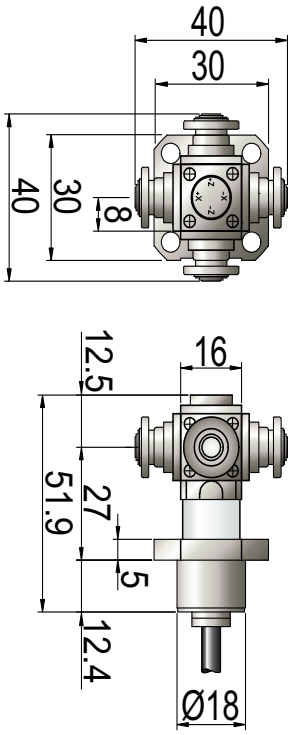
NUMBER OF CONTACTS	4
TOTAL STROKE	2 mm
CLEANING AIR	No
REPEATABILITY (2σ)	1 µm
MEASUREMENT FORCE	2÷3 N
OPERATING MODE	Norm. closed (NC)
TOUCH SPEED	50÷200 mm/min
POWER SUPPLY	24 Vdc - 20mA max
PRESENCE LED	No
OVERTRAVEL SIGNAL	No
BUILT-IN INTERFACE	No
CABLE *1 = lower / 2 = side*	1
PROTECTION DEGREE *(Standard IEC 60529)*	IP67

Q3PA9015006



NUMBER OF CONTACTS	4
TOTAL STROKE	2 mm
CLEANING AIR	No
REPEATABILITY (2σ)	1 µm
MEASUREMENT FORCE	2÷3 N
OPERATING MODE	Norm. closed (NC)
TOUCH SPEED	50÷200 mm/min
POWER SUPPLY	24 Vdc - 20mA max
PRESENCE LED	No
OVERTRAVEL SIGNAL	No
BUILT-IN INTERFACE	No
CABLE *1 = lower / 2 = side*	1
PROTECTION DEGREE *(Standard IEC 60529)*	IP67

Q3PA9012029



NUMBER OF CONTACTS	4
TOTAL STROKE	2 mm
CLEANING AIR	No
REPEATABILITY (2σ)	1 µm
MEASUREMENT FORCE	2÷3 N
OPERATING MODE	Norm. closed (NC)
TOUCH SPEED	50÷200 mm/min
POWER SUPPLY	24 Vdc - 20mA max
PRESENCE LED	No
OVERTRAVEL SIGNAL	No
BUILT-IN INTERFACE	No
CABLE *1 = lower / 2 = side*	1
PROTECTION DEGREE *(Standard IEC 60529)*	IP67

Summary table

	Q3PA9012102	Q3PA9012101	Q3PA9012111	Q3PA9013121
NUMBER OF CONTACTS	3	4	4	4
TOTAL STROKE	2 mm	2 mm	2 mm	2 mm
CLEANING AIR	No	No	No	No
REPEATABILITY (2σ)	1 µm	1 µm	1 µm	1 µm
MEASUREMENT FORCE	2÷3 N	2÷3 N	2÷3 N	2÷3 N
OPERATING MODE	Norm. closed (NC)	Norm. closed (NC)	Norm. closed (NC)	Norm. closed (NC)
TOUCH SPEED	50÷200 mm/min	50÷200 mm/min	50÷200 mm/min	50÷200 mm/min
POWER SUPPLY	24 Vdc - 20 mA max	24 Vdc - 20 mA max	24 Vdc - 20 mA max	24 Vdc - 20 mA max
PRESENCE LED	Yes - Norm. ON	Yes - Norm. ON	Yes - Norm. ON	Yes - Norm. ON
OVERTRAVEL SIGNAL	No	No	No	No
BUILT-IN INTERFACE	No	No	No	Si
CABLE *1 = lower / 2 = side*	1	1	1	1
PROTECTION DEGREE *(Standard IEC 60529)*	IP67	IP67	IP67	IP67

	Q3PA9015103	Q3PA9015114	Q3PA9015115	Q3PA9012016
NUMBER OF CONTACTS	4	4	4	4
TOTAL STROKE	2 mm	2 mm	2 mm	2 mm
CLEANING AIR	No	No	No	No
REPEATABILITY (2σ)	1 µm	1 µm	1 µm	1 µm
MEASUREMENT FORCE	2÷3 N	2÷3 N	2÷3 N	2÷3 N
OPERATING MODE	Norm. closed (NC)	Norm. closed (NC)	Norm. closed (NC)	Norm. closed (NC)
TOUCH SPEED	50÷200 mm/min	50÷200 mm/min	50÷200 mm/min	50÷200 mm/min
POWER SUPPLY	24 Vdc - 20 mA max	24 Vdc - 20 mA max	24 Vdc - 20 mA max	24 Vdc - 20 mA max
PRESENCE LED	Yes - Norm. OFF	Yes - Norm. OFF	Yes - Norm. OFF	No
OVERTRAVEL SIGNAL	No	No	No	No
BUILT-IN INTERFACE	No	No	No	No
CABLE *1 = lower / 2 = side*	1	1	1	1
PROTECTION DEGREE *(Standard IEC 60529)*	IP67	IP67	IP67	IP67

	Q3PA9012012	Q3PA9015006	Q3PA9012029	
NUMBER OF CONTACTS	4	4	4	
TOTAL STROKE	2 mm	2 mm	2 mm	
CLEANING AIR	No	No	No	
REPEATABILITY (2σ)	1 µm	1 µm	1 µm	
MEASUREMENT FORCE	2÷3 N	2÷3 N	2÷3 N	
OPERATING MODE	Norm. closed (NC)	Norm. closed (NC)	Norm. closed (NC)	
TOUCH SPEED	50÷200 mm/min	50÷200 mm/min	50÷200 mm/min	
POWER SUPPLY	24 Vdc - 20 mA max	24 Vdc - 20 mA max	24 Vdc - 20 mA max	
PRESENCE LED	No	No	No	
OVERTRAVEL SIGNAL	No	No	No	
BUILT-IN INTERFACE	No	No	No	
CABLE *1 = lower / 2 = side*	1	1	1	
PROTECTION DEGREE *(Standard IEC 60529)*	IP67	IP67	IP67	

For a full list of address locations, please consult the Marposs official website

D6C07300G0 - *Edition 05/2013 - Specifications are subject to modifications*

Marposs has an integrated system to manage the Company quality, the environment and safety, attested by ISO 9001, ISO 14001 and OHSAS 18001 certifications. Marposs has further been qualified EAQF 94 and has obtained the Q1-Award.

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