

## VOP40

UNIDIRECTIONAL REPEATABILITY (2σ) <i>using standard 35 mm finger at 600 mm/min</i>	1 μm	
MEASUREMENT FORCE <i>using standard 35 mm finger</i>	XY plane 0,5 ÷ 0,9 N	Direction Z 5,8 N
OVERTRAVEL <i>using standard 35 mm finger</i>	XY plane 11,6 mm	Direction Z 6 mm
TRANSMISSION TYPE	Multi-channel optical transmission	
TRANSMISSION ACTIVATION/ DEACTIVATION DISTANCE	6 m (HP) 3,5 m (LP)	
TRANSMISSION ANGLE	360° on the probe axis 110° on a perpendicular axis	
NUMBER OF TRANSMISSION CHANNELS	6 <i>max.</i>	
TRANSMISSION ACTIVATION	Automatic Machine M code	
TRANSMISSION DEACTIVATION	Programmable timer Machine M code	
BATTERY TYPE	2 x ½ AA lithium thionyl	
BATTERY LIFE*	<i>Stand-by</i>	230 d (HP) 380 d (LP)
	<i>5% usage</i>	190 d (HP) 320 d (LP)
	<i>Continuous usage</i>	1060 h (HP) 2100 h (LP)
PROTECTION DEGREE <i>(Standard IEC 60529)</i>	IP68	
OPERATING TEMPERATURE	0 ÷ 60 °C	

(HP) = High Power mode

(LP) = Low Power mode

(\*) = Typical performances which may vary on programming modes basis

## VOP60

UNIDIRECTIONAL REPEATABILITY (2σ) <i>using standard 35 mm finger at 600 mm/min</i>	0,5 μm* 1 μm**	
MEASUREMENT FORCE <i>using standard 35 mm finger</i>	XY plane 2 N* 0,5 ÷ 0,9 N**	Direction Z 12 N* 5,8 N**
OVERTRAVEL <i>using standard 35 mm finger</i>	XY plane 11,2 mm* 11,6 mm**	Direction Z 4 mm* 4 mm**
TRANSMISSION TYPE	Multi-channel optical transmission	
TRANSMISSION ACTIVATION/ DEACTIVATION DISTANCE	6 m (HP) 3,5 m (LP)	
TRANSMISSION ANGLE	360° on the probe axis 110° on a perpendicular axis	
NUMBER OF TRANSMISSION CHANNELS	6 <i>max.</i>	
TRANSMISSION DEACTIVATION	Automatic Machine M code	
TRANSMISSION DEACTIVATION	Programmable timer Machine M code	
BATTERY TYPE	2 x lithium manganese CR123	
BATTERY LIFE***	<i>Stand-by</i>	330 d (HP) 600 d (LP)
	<i>5% usage</i>	260 d (HP) 500 d (LP)
	<i>Continuous usage</i>	1300 h (LP) 3000 h (LP)
PROTECTION DEGREE <i>(Standard IEC 60529)</i>	IP68	
OPERATING TEMPERATURE	0 ÷ 60 °C	

(\*) = With T25 probe

(HP) = High Power mode

(\*\*) = With TT25 probe

(LP) = Low Power mode

(\*\*\*) = Typical specifications - these values may vary depending on the programming mode

## VOP40M - VOP60M

UNIDIRECTIONAL REPEATABILITY (2σ) <i>using standard 35 mm finger at 600 mm/min</i>	0,5 μm* 1 μm**	
MEASUREMENT FORCE <i>using standard 35 mm finger</i>	XY plane 2 N* 0,5 ÷ 0,9 N**	Z direction 12 N* 5,8 N**
OVERTRAVEL <i>using standard 35 mm finger</i>	XY plane 11,2 mm* 11,6 mm**	Z direction 4 mm* 4 mm**
TRANSMISSION TYPE	Multi-channel optical transmission	
TRANSMISSION ACTIVATION/ DEACTIVATION DISTANCE	6 m (HP) 3,5 m (LP)	
TRANSMISSION ANGLE	360° on the probe axis 110° on a perpendicular axis	
NUMBER OF TRANSMISSION CHANNELS	6 <i>max</i>	
TRANSMISSION DEACTIVATION	Automatic Machine M code	
TRANSMISSION DEACTIVATION	Programmable timer Machine M code	
PROTECTION DEGREE <i>(Standard IEC 60529)</i>	IP68	
OPERATING TEMPERATURE	0 ÷ 60 °C	

### VOP40M

### VOP60M

BATTERY TYPE	2 x lithium thionyl ½ AA	2 x lithium manganese CR123	
BATTERY LIFE***	<i>Stand-by</i>	230 d (HP) 380 d (LP)	330 d (HP) 600 d (LP)
	<i>5% usage</i>	190 d (HP) 320 d (LP)	260 d (HP) 500 d (LP)
	<i>Continuous usage</i>	1060 h (HP) 2100 h (LP)	1300 h (LP) 3000 h (LP)

(\*) = With T25 probe

(HP) = High Power mode

(\*\*) = With TT25 probe

(LP) = Low Power mode

(\*\*\*) = Typical specifications - these values may vary depending on the programming mode

## VOTS - VOTS 90°

UNIDIRECTIONAL REPEATABILITY (2σ) <i>at 600 mm/min</i>	1 μm	
MEASUREMENT FORCE	XY plane 0,5 ÷ 0,9 N* 0,5 ÷ 0,9 N**	Direction Z 5,8 N* 0,3 N**
OVERTRAVEL	XY plane 7 mm* 12°**	Direction Z 6°* 6 mm**
TRANSMISSION TYPE	Multi-channel optical transmission	
TRANSMISSION ACTIVATION/ DEACTIVATION DISTANCE	6 m (HP) 3,5 m (LP)	
TRANSMISSION ANGLE	360° on the probe axis 110° on a perpendicular axis	
NUMBER OF TRANSMISSION CHANNELS	6 <i>max.</i>	
TRANSMISSION DEACTIVATION	Automatic Machine M code	
TRANSMISSION DEACTIVATION	Programmable timer Machine M code	
BATTERY TYPE	2 x ½ AA lithium thionyl	
BATTERY LIFE***	<i>Stand-by</i>	230 d (HP) 380 d (LP)
	<i>5% usage</i>	190 d (HP) 320 d (LP)
	<i>Continuous usage</i>	1060 h (HP) 2100 h (LP)
PROTECTION DEGREE <i>(Standard IEC 60529)</i>	IP68	
OPERATING TEMPERATURE	0 ÷ 60 °C	

(\*) = VOTS

(HP) = High Power mode

(\*\*) = VOTS 90°

(LP) = Low Power mode

(\*\*\*) = Typical specifications - these values may vary depending on the programming mode

## VOI

POWER SUPPLY		13.5 - 30 Vdc max current 100 mA Power consumption 2 W
INPUT SIGNALS <i>(SINK or SOURCE)</i>	Start/Stop SEL 0 / SEL 1	Opto-isolated 13.5 - 30 Vdc 1 mA at 15 V
OUTPUT SIGNALS <i>(may be set to N.C. or N.O. with the exception of the error, which is always set to N.C.)</i>	Probe1 State/Pulse Probe 2 State/Pulse Battery discharged Error	Solid state relay (SSR) 4 - 30 V 40 mA
PROTECTION DEGREE <i>(IEC 60529)</i>	IP68	