

Compact light weight type

2023/03/22

Features



All stainless structure. UMM1R : Robot cable is attached.

Specification

Specification name	Specification contents
Rated capacity	490.3 N{50 kgf}~19.61 kN{2 tf}
Safe overload	150 %R.C.
Ultimate overload	200 %R.C.
Rated output	2 mV/V±0.01 mV/V
Non-linearity	0.15 %R.O.
Hysteresis	0.1 %R.O.
Repeatability	0.05 %R.O.
Excitation, recommended	12 V or less
Excitation, maximum	18 V
Zero balance	±0.06 mV/V
Input resistance	425 Ω±50 Ω
Output resistance	350 Ω±5 Ω
Insulation resistance	2,000 MΩ or more (DC50 V) (between bridge and main body)
Temp. range. compensated	-10 °C~70 °C

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Temp. range, safe	-20 °C~80 °C
Temp. effect on zero	0.05 %R.O./10 °C
Temp. effect on output	0.1 %LOAD/10 °C
Class of protection	IP67 or equivalent
Material of element	Stainless steel
Durability	1,000,000 times with rated load applied.

Table of P/N

Parts No.	Rated capacity [N]	Rated capacity [kN]	Weight(Approx.) [kg]	Natural frequency [Hz]	Rated displacement [mm]	Cable
UMM1R-50K	490.3		0.60	3600	0.15	φ6.3 4-cores shielded robotcable 6m connected Y-terminals
UMM1R-100K	980.7		0.60	5000	0.10	φ6.3 4-cores shielded robotcable 6m connected Y-terminals
UMM1R-200K		1.961	0.60	6000	0.07	φ6.3 4-cores shielded robotcable 6m connected Y-terminals
UMM1R-500K		4.903	0.60	7000	0.07	φ6.3 4-cores shielded robotcable 6m connected Y-terminals
UMM1R-1T		9.807	0.60	10000	0.05	φ6.3 4-cores shielded robotcable 6m connected Y-terminals
UMM1R-2T		19.61	0.60	10000	0.05	φ6.3 4-cores shielded robotcable 6m connected Y-terminals
UMM1J-50K	490.3		0.60	3600	0.15	Option(Type RC019-6M) φ6.3 4 core shield Robotcable 6m Loacell side R04-P6F Another side Y-tarminal
UMM1J-100K	980.7		0.60	5000	0.10	Option(Type RC019-6M) φ6.3 4 core shield Robotcable 6m Loacell side R04-P6F Another side Y-tarminal
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UMM1J-2T	19.61	0.60	10000	0.05	Option(Type RC019-6M) φ6.3 4 core shield Robotcable 6m Loacell side R04-P6F Another side Y-terminal

Parts No.	3D CAD files [STEP]	CAD files[DXF]	Specification sheet	Instruction Manual
UMM1R-50K	UMM1R-50K~1T.STEP	umm1.dxf	No.ENKT53167-2_C	No.ENKT60244-1-H
UMM1R-100K	UMM1R-50K~1T.STEP	umm1.dxf	No.ENKT53167-2_C	No.ENKT60244-1-H
UMM1R-200K	UMM1R-50K~1T.STEP	umm1.dxf	No.ENKT53167-2_C	No.ENKT60244-1-H
UMM1R-500K	UMM1R-50K~1T.STEP	umm1.dxf	No.ENKT53167-2_C	No.ENKT60244-1-H
UMM1R-1T	UMM1R-50K~1T.STEP	umm1.dxf	No.ENKT53167-2_C	No.ENKT60244-1-H
UMM1R-2T	UMM1R-2T.STEP	umm1.dxf	No.ENKT53167-2_C	No.ENKT60244-1-H
UMM1J-50K	UMM1J-50K~1T.STEP	umm1.dxf	No.ENKT53253-2_C	No.ENKT60244-1-H
UMM1J-100K	UMM1J-50K~1T.STEP	umm1.dxf	No.ENKT53253-2_C	No.ENKT60244-1-H
UMM1J-200K	UMM1J-50K~1T.STEP	umm1.dxf	No.ENKT53253-2_C	No.ENKT60244-1-H
UMM1J-500K	UMM1J-50K~1T.STEP	umm1.dxf	No.ENKT53253-2_C	No.ENKT60244-1-H
UMM1J-1T	UMM1J-50K~1T.STEP	umm1.dxf	No.ENKT53253-2_C	No.ENKT60244-1-H
UMM1J-2T	UMM1J-2T.STEP	umm1.dxf	No.ENKT53253-2_C	No.ENKT60244-1-H

Options

Spherical rod end
Swivel clevis shank