

PR6212 Series Compression Type Compact Stainless Steel Load Cell

2022/09/20

Minebea Intec

Features



- Gage is applied using sputtering technology to dramatically improve strength and accuracy. High temperature(LT:rated 500kg~5t)version is available for up to 180°C
- Stainless steel housing:SUS630 equivalent
- Completely waterproof IP68
- Lateral load relief mechanism

Specification

Specification name	Specification contents	Specification contents2	Specification contents3
OIML Accuracy class	C1	C1E	C1-L
Accuracy class	0.04E _{max} ~0.25E _{max}	0.04E _{max} ~0.25E _{max}	0.04E _{max} ~0.25E _{max}
Safe load limit	150%E _{max}	150%E _{max}	150%E _{max}
Destructive load	>300%E _{max}	>300%E _{max}	>300%E _{max}
Rated output	2.0mV/V	2.0mV/V	2.0mV/V
Rated output tolerance	<1.5%C _n	<1.5%C _n	<1.5%C _n
Zero balance	<0...2%C _n	<0...2%C _n	<0...2%C _n
Reproducibility	<0.1%C _n	<0.1%C _n	<0.1%C _n
Creep	<0.035%C _n	<0.035%C _n	<0.035%C _n
Non-linearity	<0.25%C _n	<0.25%C _n	<0.25%C _n
Hysteresis	<0.25%C _n	<0.25%C _n	<0.25%C _n
Temperature effect on Zero	<0.1%C _n /10K	<0.1%C _n /10K	<0.1%C _n /10K

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Temperature effect on Span	<0.07%Cn/10K	<0.07%Cn/10K	<0.07%Cn/10K
Input resistance	1000Ω~1400Ω	1000Ω~1400Ω	1000Ω~1400Ω
Rated output	1194Ω~1206Ω	1194Ω~1206Ω	1194Ω~1206Ω
Insulation resistance	>5000×10 ⁶ Ω	>5000×10 ⁶ Ω	>5000×10 ⁶ Ω
Nominal supply voltage	4~24V	4~24V	4~24V
Maximum supply voltage	32(/..E only Umax 25V)	32(/..E only Umax 25V)	32(/..E only Umax 25V)
Nominal ambient temperature range	-10°C~+155°C	-10°C~+155°C	-10°C~+155°C
Usable ambient temperature range	-40°C~+180°C	-40°C~+180°C	-40°C~+180°C
Storage ambient temperature range	-40°C~+180°C	-40°C~+180°C	-40°C~+180°C
Explosion-proof certification in Japan	【JPEX】 Ex ia IIC T6 Ga(DEK19.0065/DEKRA)	【JPEX】 Ex ia IIC T6 Ga(DEK19.0065/DEKRA)	【JPEX】 Ex ia IIC T6 Ga(DEK19.0065/DEKRA)
Conforms to overseas explosion protection standards	【IECEX】 Ex ia IIC T6 Ga/ 【ATEX】 II 1G Ex ia IIC T6 Ga	【IECEX】 Ex ia IIC T6 Ga/ 【ATEX】 II 1G Ex ia IIC T6 Ga	【IECEX】 Ex ia IIC T6 Ga/ 【ATEX】 II 1G Ex ia IIC T6 Ga
Class of protection	IP68/IP69K	IP68/IP69K	IP68/IP69K
Material of element	AISI 1.4542	AISI 1.4542	AISI 1.4542
Cable specification	PFA with 4-core shield, outer shell (red) Φ6mm TPE, outer shell (gray) Φ5mm 5m long	PFA with 4-core shield, outer shell (red) Φ6mm TPE, outer shell (gray) Φ5mm 5m long	PFA with 4-core shield, outer shell (red) Φ6mm TPE, outer shell (gray) Φ5mm 5m long
Wiring specification	Applied voltage +red/-blue Output signal +green/-ash	Applied voltage +red/-blue Output signal +green/-ash	Applied voltage +red/-blue Output signal +green/-ash

Specification contents4

LT
0.04E _{max} ~0.25E _{max}
150%E _{max}
>300%E _{max}
2.0mV/V
<1.5%Cn
<0...2%Cn
<0.1%Cn
<0.035%Cn
<0.25%Cn
<0.25%Cn
<0.1%Cn/10K

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<0.07%Cn/10K
1000Ω~1400Ω
1194Ω~1206Ω
>5000×10 ⁶ Ω
4~24V
32(/.E only Umax 25V)
-10℃~+155℃
-40℃~+180℃
-40℃~+180℃
【JPEX】 Ex ia II C T6 Ga(DEK19.0065/DEKRA)
【IECEX】 Ex ia II C T6 Ga/ 【ATEX】 II 1G Ex ia II C T6 Ga
IP68/IP69K
AISI 1.4542
PFA with 4-core shield, outer shell (red) Φ6mm TPE, outer shell (gray) Φ5mm 5m long
Applied voltage +red/-blue Output signal +green/-ash

Table of P/N

Parts No.	Rated Capacity [tf]	Weight [kg]	Gross Weight [kg]	Packaged Size(W) [cm]	Packaged Size(L) [cm]	Packaged Size(H) [cm]
PR6212/500kg C1	0.5	1.0	1.3	25	23	6
PR6212/500kg C1E	0.5	1.0	1.3	25	23	6
PR6212/500kg C1-L	0.5	1.0	1.3	25	23	6
PR6212/500kg LT	0.5	1.0	1.3	25	23	6
PR6212/1t C1	1.0	1.0	1.3	25	23	6
PR6212/1t CE	1.0	1.0	1.3	25	23	6
PR6212/1t C1-L	1.0	1.0	1.3	25	23	6
PR6212/1t LT	1.0	1.0	1.3	25	23	6
PR6212/1t C1	1.0	1.0	1.3	25	23	6
PR6212/1t C1E	1.0	1.0	1.3	25	23	6
PR6212/1t C1E-L	1.0	1.0	1.3	25	23	6
PR6212/1t LT	1.0	1.0	1.3	25	23	6

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PR6212/2t C1	2.0	1.0	1.3	25	23	6
PR6212/2t C1E	2.0	1.0	1.3	25	23	6
PR6212/2t C1-L	2.0	1.0	1.3	25	23	6
PR6212/2t LT	2.0	1.0	1.3	25	23	6
PR6212/2t C1	2.0	1.0	1.3	25	23	6
PR6212/2t C1E	2.0	1.0	1.3	25	23	6
PR6212/2t C1-L	2.0	1.0	1.3	25	23	6
PR6212/2t LT	2.0	1.0	1.3	25	23	6
PR6212/3t C1	3.0	1.0	1.3	25	23	6
PR6212/3t C1E	3.0	1.0	1.3	25	23	6
PR6212/3t C1-L	3.0	1.0	1.3	25	23	6
PR6212/3t LT	3.0	1.0	1.3	25	23	6
PR6212/3t C1	3.0	1.0	1.3	25	23	6
PR6212/3t C1E	3.0	1.0	1.3	25	23	6
PR6212/3t C1-L	3.0	1.0	1.3	25	23	6
PR6212/3t LT	3.0	1.0	1.3	25	23	6
PR6212/5t C1	5.0	1.0	1.3	25	23	6
PR6212/5t C1E	5.0	1.0	1.3	25	23	6
PR6212/5t C1-L	5.0	1.0	1.3	25	23	6
PR6212/5t LT	5.0	1.0	1.3	25	23	6
PR6212/5t C1	5.0	1.0	1.3	25	23	6
PR6212/5t C1E	5.0	1.0	1.3	25	23	6
PR6212/5t C1-L	5.0	1.0	1.3	25	23	6
PR6212/5t LT	5.0	1.0	1.3	25	23	6
PR6212/10t C1	10.0	1.0	1.3	25	23	6
PR6212/10t C1E	10.0	1.0	1.3	25	23	6
PR6212/10t C1-L	10.0	1.0	1.3	25	23	6
PR6212/10t LT	10.0	1.0	1.3	25	23	6

Parts No.	PDF data (outline drawing)	Specification sheet	Instruction Manual	Movie
PR6212/500kg C1	KT54535-2.pdf	211PR6212-LT_C1-B.pdf	KT60965-1.pdf	Product introduction
PR6212/500kg C1E	KT54535-2.pdf	211PR6212-LT_C1-B.pdf	KT60965-1.pdf	Product introduction
PR6212/500kg C1-L	KT54535-2.pdf	211PR6212-LT_C1-B.pdf	KT60965-1.pdf	Product introduction
PR6212/500kg LT	KT54535-2.pdf	211PR6212-LT_C1-B.pdf	KT60965-1.pdf	Product introduction
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PR6212/1t C1-L	KT54535-2.pdf	211PR6212-LT_C1-B.pdf	KT60965-1.pdf	Product introduction
PR6212/1t LT	KT54535-2.pdf	211PR6212-LT_C1-B.pdf	KT60965-1.pdf	Product introduction

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PR6212/1t C1	KT54535-2.pdf	211PR6212-LT_C1-B.pdf	KT60965-1.pdf	Product introduction
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