A.2 LIST OF SIGNALS

A.2.1 List of Signals (In Order of Functions)

○ : Available
● : Available only with multi path control
- : Unavailable

Function	Signal name	Symbol	Address	T series	M series
2nd feedrate override	2nd feedrate override signals	*AFV0 to *AFV7	G013	○	○
2nd geometry tool offset	Tool offset direction signal	G2RVX	G090.0	○	-
		G2RVZ	G090.1	○	-
		G2RVY	G090.2	○	-
	2nd geometry tool offset axis select signal	G2X	G090.4	○	-
		G2Z	G090.5	○	-
		G2Y	G090.6	○	-
	2nd geometry tool offset signal	G2SLC	G090.7	○	-
2nd reference position return/3rd, 4th reference position return	2nd reference position return completion signals	ZP21 to ZP28	F096	○	○
	3rd reference position return completion signals	ZP31 to ZP38	F098	○	○
	4th reference position return completion signals	ZP41 to ZP48	F100	○	○
Absolute position detection	Absolute position detector battery voltage zero alarm signal	PBATZ	F172.6	○	○
	Absolute position detector battery voltage low alarm signal	PBATL	F172.7	○	○
Actual speed display	Actual speed display axis selection signals	*ACTF1 to *ACTF8	G580	○	○
Actual spindle speed output	Actual spindle speed signals	AR00 to AR15	F040,F041	○	○
		AR002 to AR152	F202,F203	○	○
		AR003 to AR153	F206,F207	○	○
		AR004 to AR154	F272,F273	○	○
AI contour control I/II	AI contour control mode signal	AICC	F062.0	○	○
Alarm signal	Alarm signal	AL	F001.0	○	○
	Battery alarm signal	BAL	F001.2	○	○
Angular axis control	Signal for disabling angular axis control for the perpendicular axis	NOZAGC	G063.5	○	○
Arbitrary speed threading	Chamfering for arbitrary speed threading signal	ASTC	G549.6	○	○
	Groove of thread measurement signal	GTMSR	G549.4	○	○
	Re-machining thread signal	RMTC	G549.5	○	○
	Groove of thread measurement completion signal	GTMC	F546.4	○	○
	Groove of thread measurement error signal	GTME	F546.5	○	○

Function	Signal name	Symbol	Address	T series	M series
Arbitrary spindle position phase synchronization function	Spindle position save start signal	SPMST1 to SPMST4	G587.0 to G587.3	○	○
	Spindle position save selection signal	SMSL11 to SMSL14	G588.0 to G588.3	○	○
		SMSL21 to SMSL24	G588.4 to G588.7	○	○
	Arbitrary spindle position phase synchronization signal	SPAPH1 to SPAPH4	G587.4 to G587.7	○	○
	Spindle position save completion signal	SPMFN1 to SPMFN4	F577.0 to F577.3	○	○
	Spindle position save error signal	SPMER1 to SPMER4	F577.4 to F577.7	○	○
Automatic data backup	Automatic data backup executing signal	ATBK	F520.0	○	○
Automatic phase synchronization for flexible synchronization control	Flexible synchronization control automatic phase synchronization signals	AUTPHA, AUTPHB, AUTPHC, AUTPHD	G381.0 to G381.3	○	○
	Flexible synchronization control phase synchronization end signals	PHFINA, PHFINB, PHFINC, PHFIND	F381.0 to F381.3	○	○
	Automatic phase synchronization error detection signals	PHERA, PHERB, PHERC, PHERD	F553.0 to F553.3	○	○
	Flexible synchronization control mode selecting signals	FSYSA, FSYSB, FSYSC, FSYSD	F553.4 to F553.7	○	○
Automatic tool length measurement (M series)/ Automatic tool offset (T series)	Measuring position reached signals	GAE1	G517.0	○	○
		GAE2	G517.1	○	○
		GAE3	G517.2	-	○
Auxiliary function/2nd auxiliary function	Auxiliary function code signals	M00 to M31	F010 to F013	○	○
	Auxiliary function strobe signals	MF	F007.0	○	○
	Decode M signals	DM00	F009.7	○	○
		DM01	F009.6	○	○
		DM02	F009.5	○	○
		DM30	F009.4	○	○
	Spindle function code signals	S00 to S31	F022 to F025	○	○
Auxiliary function/2nd auxiliary function	Spindle function strobe signal	SF	F007.2	○	○
	Tool function code signals	T00 to T31	F026 to F029	○	○
	Tool function strobe signal	TF	F007.3	○	○
	2nd auxiliary function code signals	B00 to B31	F030 to F033	○	○
	2nd auxiliary function strobe signal	BF	F007.7	○	○
	End signal	FIN	G004.3	○	○
	Distribution completion signals	DEN	F001.3	○	○

Function	Signal name	Symbol	Address	T series	M series
Auxiliary function lock	Auxiliary function lock signal	AFL	G005.6	○	○
	Auxiliary function lock check signal	MAFL	F004.4	○	○
Auxiliary function output block reverse movement for manual handle retrace	Auxiliary function output block reverse movement enable output signal	ADCO	F091.5	○	○
Axis immediate stop	Axis immediate stop start signal	ESTPR	G203.3	○	○
Axis non-display	Axis non-displayed signals	NPOS1 to NPOS8	G198	○	○
Axis switching	Axis switching signals	AXC1	G534.0	○	○
		AXC2	G534.1	○	○
		AXC4	G534.2	○	○
Axis synchronous control	Signals for selecting the manual feed axis for axis synchronous control	SYNCJ1 to SYNCJ8	G140	○	○
	Machine coordinate match state output signals	SYNMT1 to SYNMT8	F210	○	○
	Axis synchronous control status signals	SYNO1 to SYNO8	F532	○	○
	Synchronization compensation enable state output signals	SYNOF1 to SYNOF8	F211	○	○
	Signal for indicating a positional deviation error alarm for axis synchronous control	SYNER	F403.0	○	○
	Synchronous control axis selection signals	SYNC1 to SYNC8	G138	○	○
	Signal for disabling torque difference alarm detection for axis synchronous control	NSYNCA	G059.7	○	○
Axis total travel distance display	Total travel distance clear signal	TDC1 to TDC8	G726	○	○
	Target distance attainment status signal	TDA1 to TDA8	F730	○	○
Canned cycle / multiple repetitive canned cycle	Chamfering signal	*CDZ	G053.7	○	-
Canned cycle for drilling	Small-hole peck drilling cycle in progress signal	PECK2	F066.5	-	○
	Tapping signal	TAP	F001.5	○	○
Changing the display language by pmc signals	Display language switch start signal	SLANG	G581.7	○	○
	Display language setting signals	LANG1 to LANG7	G581.0 to G581.6	○	○
	Display language switch completion signal	FLANG	F545.0	○	○
Chuck / tail stock barrier	Tail stock barrier selection signal	*TSB	G060.7	○	-
CNC ready signal	CNC ready signal	MA	F001.7	○	○
	Servo ready signal	SA	F000.6	○	○
CNC screen dual display	Key control selection signal	CNCKY	G295.7	○	○

Function	Signal name	Symbol	Address	T series	M series
CNC screen dual display	Key control selection status signal	CNCKYO	F295.7	○	○
	Dual display forcible end request signal	C2SEND	G295.6	○	○
	Dual display forcible end status signal	C2SENO	F295.6	○	○
CNC screen Web server function	Web browser connection status signal	WBCNT	F0578.2	○	○
	Web browser connection prohibition signal	WBEND	G0579.5	○	○
Communication Retry Monitoring Function	I/O Link 1 retry abnormality warning signal	WIOCH1	F0535.0	○	○
	I/O Link 2 retry abnormality warning signal	WIOCH2	F0535.1	○	○
	I/O Link 3 retry abnormality warning signal	WIOCH3	F0535.2	○	○
	SRAM ECC abnormality warning signal	WECCS	F0535.3	○	○
	Embedded Ethernet communication abnormality warning signal	WETE	F0535.4	○	○
	Fast Ethernet communication abnormality warning signal	WETF	F0535.5	○	○
	FL-net1 communication abnormality warning signal	WFLN1	F0535.6	○	○
	FL-net2 communication abnormality warning signal	WFLN2	F0535.7	○	○
Constant surface speed control	Constant surface speed signal	CSS	F002.2	○	○
Controlled axis detach	Controlled axis detach signals	DTCH1 to DTCH8	G124	○	○
	Controlled axis detach status signals	MDTCH1 to MDTCH8	F110	○	○
Cs contour control	Cs contour control change signal	CON	G027.7	○	○
	Cs contour control change signal (for each spindle)	CONS1	G274.0	○	○
		CONS2	G274.1	○	○
		CONS3	G274.2	○	○
		CONS4	G274.3	○	○
	Cs contour control change completion signal	FSCSL	F044.1	○	○
	Cs contour control change completion signal (for each spindle)	FCSS1	F274.0	○	○
		FCSS2	F274.1	○	○
		FCSS3	F274.2	○	○
		FCSS4	F274.3	○	○
Cs contour control axis coordinate establishment	Cs axis coordinate establishment request signals	CSFI1	G274.4	○	○
		CSFI2	G274.5	○	○
		CSFI3	G274.6	○	○
		CSFI4	G274.7	○	○
	Cs axis coordinate establishment alarm signals	CSFO1	F274.4	○	○
		CSFO2	F274.5	○	○
		CSFO3	F274.6	○	○
		CSFO4	F274.7	○	○

Function	Signal name	Symbol	Address	T series	M series
Cs contour control axis coordinate establishment	Cs axis origin established state signals	CSPENA	F048.4	○	○
		CSPENB	F052.4	○	○
		CSPENC	F171.4	○	○
		CSPEND	F269.4	○	○
Custom macro	Custom macro input signals	UI000 to UI031	G054 to G057	○	○
		UI100 to UI131	G276 to G279	○	○
		UI200 to UI231	G280 to G283	○	○
		UI300 to UI331	G284 to G287	○	○
	Custom macro output signals	UO000 to UO031	F054,F055, F276,F277	○	○
		UO100 to UO131	F056 to F059	○	○
		UO200 to UO231	F280 to F283	○	○
		UO300 to UO331	F284 to F287	○	○
Cycle start / feed hold	Cycle start signal	ST	G007.2	○	○
	Feed hold signal	*SP	G008.5	○	○
	Automatic operation signal	OP	F000.7	○	○
	Cycle start lamp signal	STL	F000.5	○	○
	Feed hold lamp signal	SPL	F000.4	○	○
Data transfer between PMC and DCSPMC	DI signal for Data transfer between PMC and DCSPMC	TPMG00 to TPMG07	G765	○	○
	DO signal for Data transfer between PMC and DCSPMC	TDCF00 to TDCF07	F747	○	○
DeviceNet Master function	DeviceNet communication normal signal	DNTCM	F290.2	○	○
	DeviceNet communication abnormal signal	DNTER	F545.4	○	○
	DeviceNet communication error clear signal	DNTCLR	G518.4	○	○
Diameter/radius specification switch	Diameter/radius specification switch signals	DI1 to DI8	G296	○	○
	Diameter/radius specification switching in-progress signals	DM1 to DM8	F296	○	○
Direct input of tool offset value measured	Position record signal	PRC	G040.6	○	-
Direct input of tool offset value measured B	Tool offset number selection signals	OFN0 to OFN5, OFN6 to OFN9	G039.0 to G039.5, G040.0 to G040.3	○	-
	Tool offset write mode select signal	GOQSM	G039.7	○	-
	Workpiece coordinate system shift value write mode select signal	WOQSM	G039.6	○	-
	Tool offset write signals	+MIT1,-MIT1 +MIT2,-MIT2	X004.2,X004.3 X004.4,X004.5	○	-
		+MIT1 to +MIT2 -MIT1 to -MIT2	G132.0 to G132.1 G134.0 to G134.1		
	Spindle measurement select signal	S2TLS	G040.5	○	-

Function	Signal name	Symbol	Address	T series	M series
Direct input of tool offset value measured B	Workpiece coordinate system shift value write signal	WOSET	G040.7	○	-
	Tool compensation number specification signal	ONSC	G547.6	○	-
	Spindle 1 under measurement signal	S1MES	F062.3	○	-
	Spindle 2 under measurement signal	S2MES	F062.4	○	-
	Tool offset number selection signals (for milling and turning function)	OFNC0 to OFNC5, OFNC6 to OFNC9	G546.0 to G546.5, G547.0 to G547.3	-	○
	Tool offset write mode select signal (for milling and turning function)	GQSMC	G546.7	-	○
	Tool offset write signals	+MIT1	G132.0	-	○
Direct operation by personal computer function	Direct operation select signal	DMMC	G042.7	○	○
DNC operation	DNC operation select signal	DNCI	G043.5	○	○
	DNC operation selection confirm signal	MRMT	F003.4	○	○
	External device program execution signal	DVCPR	F531.6	○	○
Dry run	Dry run signal	DRN	G046.7	○	○
	Dry run check signal	MDRN	F002.7	○	○
Dual position feedback	Turning mode selection signal	HBTRN	G531.3	○	○
	Compensation clamp signals	*CL1 to *CL8	G548	○	○
Dual control axes switching	Dual control axes switching signal	SVMWC1 to SVMWC8	G687	○	○
	Dual control axes status signal	SVMWS1 to SVMWS8	F687	○	○
Each axis workpiece coordinate system preset signals	Each axis workpiece coordinate system preset signals	WPRST1 to WPRST8	G358	○	○
	Each axis workpiece coordinate system preset completion signals	WPSF1 to WPSF8	F358	○	○
Electronic gear box	Retract signal	RTRCT	G066.4	○	○
	Retract completion signal	RTRCTF	F065.4	○	○
	EGB mode signal	SYNMOD	F065.6	○	○
Electronic gear box 2 pair	EGB synchronization start signals	EGBS1 to EGBS8	G530	○	○
	EGB mode confirmation signals	EGBM1 to EGBM8	F208	○	○
Emergency stop	Emergency stop signals	*ESP	G008.4	○	○
			X008.4, .0, .1	○	○
Extended external machine zero point shift	Extended external machine zero point shift signal	EMZ0 to EMZ15	Specifying by parameter No.1280.	○	○

Function	Signal name	Symbol	Address	T series	M series
External data input	Address signals for external data input	EA6 to EA0	G002.6 to G002.0	○	○
	Data signals for external data input	ED31 to ED0	G211,G210, G001,G000	○	○
	Read signal for external data input	ESTB	G002.7	○	○
	Read completion signal for external data input	EREND	F060.0	○	○
	Search completion signal for external data input	ESEND	F060.1	○	○
	Search cancel signal for external data input	ESCAN	F060.2	○	○
External deceleration	External deceleration signals 1	*+ED1 to *+ED8	G118	○	○
		*-ED1 to *-ED8	G120	○	○
	External deceleration signals 2	*+ED21 to *+ED28	G101	○	○
		*-ED21 to *-ED28	G103	○	○
	External deceleration signals 3	*+ED31 to *+ED38	G107	○	○
		*-ED31 to *-ED38	G109	○	○
	External deceleration signals 4	*+ED41 to *+ED48	G341	○	○
		*-ED41 to *-ED48	G342	○	○
	External deceleration signals 5	*+ED51 to *+ED58	G343	○	○
		*-ED51 to *-ED58	G344	○	○
External I/O device control	External input start signal	EXINP	G058.1	○	○
	External input/output stop signal	EXSTP	G058.2	○	○
	External output start signal	EXOUT	G058.3	○	○
	Input/output busy signal	IOBSY	F053.2	○	○
	Input/output alarm signal	IOALM	F053.3	○	○
	Background editing signal	BGEACT	F053.4	○	○
External key input	External key input mode selection signal	ENBKY	G066.1	○	○
	Key code signals	EKC0 to EKC7	G098	○	○
	Key code read signal	EKSET	G066.7	○	○
	Key code read completion signal	EKENB	F053.7	○	○
	Key input disable signal	INHKY	F053.0	○	○
	Program screen display mode signal	PRGDPL	F053.1	○	○
External workpiece number search	External workpiece number search signals	PN1,PN2,PN4, PN8,PN16	G009.0 to G009.4	○	○
	Extended external workpiece number search signals	EPN0 to EPN13	G024.0 to G025.5	○	○
	External workpiece number search start signal	EPNS	G025.7	○	○
Fan Motor Abnormality Monitoring Function	Alarm level detection signal	SFAN	F093.1	○	○
	Warning level detection signal	WFAN	F093.3	○	○
Feedrate override	Feedrate override signals	*FV0 to *FV7	G012	○	○
Flexible path axis assignment	Removal start signal	RMVST	G536.2	○	○
	Assignment start signal	ASNST	G536.3	○	○
	Exchange start signal	EXCST	G536.4	○	○

Function	Signal name	Symbol	Address	T series	M series
Flexible path axis assignment	Direct assignment mode signal	DASN	G536.5	○	○
	Removal completion signal	RMVED	F536.2	○	○
	Assignment completion signal	ASNED	F536.3	○	○
	Exchange completion signal	EXCED	F536.4	○	○
	Initial axis assignment signal	INIST	F536.7	○	○
Flexible synchronization control	Flexible synchronization control mode selection signals	MTA,MTB,MTC, MTD	G197.0 to G197.3	○	○
	Flexible synchronization control mode status signals	MFSYNA, MFSYNB, MFSYNC, MFSYND	F197.0 to F197.3	○	○
Follow-up	Follow-up signal	*FLWU	G007.5	○	○
Function of deceleration stop in case of power failure	Power failure deceleration signal	PWFL	G203.7	○	○
G code preventing buffering	Speed-up of non-buffering command by G code invalid signal	NHSW	G579.6	○	○
Handle-synchronous feed	Handle-synchronous feed signal	HREV	G023.4	○	○
	Selecting direction of manual handle rotation signal	HDSR	G193.3	○	○
	Feed zero signal	FEED0	F066.2	○	○
High precision oscillation function	Oscillation feedrate override signals	*CHP1 to *CHP8	G051.0 to G051.3	○	○
	Oscillation start signal	CHPST	G051.6	○	○
	Oscillation hold signal	*CHLD	G051.7	○	○
	Oscillation -in-progress signal	CHPMD	F039.2	○	○
	Oscillation cycle signal	CHPCYL	F039.3	○	○
High-speed M/S/T/B interface	Auxiliary function completion signal	MFIN	G005.0	○	○
	Spindle function completion signal	SFIN	G005.2	○	○
	Tool function completion signal	TFIN	G005.3	○	○
	2nd auxiliary function completion signal	BFIN	G005.7	○	○
	2nd M function completion signal	MFIN2	G004.4	○	○
	3rd M function completion signal	MFIN3	G004.5	○	○
	4th M function completion signal	MFIN4	G004.6	○	○
	5th M function completion signal	MFIN5	G004.7	○	○
High-speed position switch	High-speed position switch signals	HPS01 to HPS16	F293,F294	○	○
			Yxxx,Yxxx+1	○	○

Function	Signal name	Symbol	Address	T series	M series
High speed program check	High-speed program check signal	PGCK	G290.5	○	○
	High speed program check mode signal	PRGMD	F290.5	○	○
High speed program check	High speed program check saving data signal	PCKSV	F290.4	○	○
High-speed program management	All programs save request signal	HPMRSV	G514.4	○	○
	Programs not saved status signal	HPMNTS	F547.5	○	○
	Programs saving in progress signal	HPMSVM	F547.6	○	○
	Programs save error signal	HPMERR	F547.7	○	○
High-speed skip	High-speed skip status signals	HDO0 to HDO7	F122	○	○
In-acceleration/ deceleration signal	In-acceleration/ deceleration signal	ACDEC	F520.3	-	○
Inch/metric conversion	Inch input signal	INCH	F002.0	○	○
Index table indexing function	B axis clamp signal	BCLP	F061.1	-	○
	B axis clamp completion signal	*BECLP	G038.7	-	○
	B axis unclamp signal	BUCLP	F061.0	-	○
	B axis unclamp completion signal	*BEUCP	G038.6	-	○
In-feed control (for grinding machine)	In-feed control cut start signal	INFD	G063.6	-	○
In-position check	In-position signals	INP1 to INP8	F104	○	○
	In-position check signal	SMZ	G053.6	○	○
	In-position check disable signal	NOINPS	G023.5	○	○
Interference check	Path interference check association signal	ITF01 to ITF10	G406.0 to G407.1	●	-
	Path interference check in progress signal	TICHK	F064.6	●	-
	Path interference alarm signal	TIALM	F064.7	●	-
Interlock	Start lock signal	STLK	G007.1	○	○
	Interlock signal for all axes	*IT	G008.0	○	○
	Interlock signal for each axis	*IT1 to *IT8	G130	○	○
	Interlock signal for each axis direction	+MIT1 to +MIT8 -MIT1 to -MIT8	G132 G134	-	○
	Cutting block start interlock signal	*CSL	G008.1	○	○
	Block start interlock signal	*BSL	G008.3	○	○
Interrupt type custom macro	Interrupt signal for custom macro	UINT	G053.3	○	○
Inter-path flexible synchronization control	Inter-path flexible synchronization mode select signal	OVLN	G531.4	○	○
	Inter-path flexible synchronization mode signal	OVLNS	F545.1	○	○

Function	Signal name	Symbol	Address	T series	M series
I/O Link βi Manual handle interface (Peripheral equipment control interface)	Manual handle generators selection signal	IOLBH1, IOLBH2	G199.0, G199.1	○	○
	β ready signal	IOLBR	F531.7	○	○
Jog feed/incremental feed	Feed axis and direction selection signals	+J1 to +J8	G100	○	○
		-J1 to -J8	G102	○	○
	Manual feedrate override signals	*JV0 to *JV15	G010,G011	○	○
	Manual rapid traverse selection signal	RT	G019.7	○	○
Machine lock	All-axis machine lock signal	MLK	G044.1	○	○
	Each-axis machine lock signal	MLK1 to MLK8	G108	○	○
	All-axis machine lock check signal	MMLK	F004.1	○	○
Macro executor	Input signals for P-code macro	EUI00 to EUI15	G082,G083	○	○
	Output signals for P-code macro	EUO00 to EUO15	F084,F085	○	○
Manual 2nd/3rd/4th reference position return function	Manual 2nd/3rd/4th reference position return select 1 signal	SLREF	G340.5	○	○
	Manual 2nd/3rd/4th reference position return select 2 signal	SLRER	G340.6	○	○
Manual absolute on/off	Manual absolute signal	*ABSM	G006.2	○	○
	Manual absolute check signal	MABSM	F004.2	○	○
Manual handle feed	Manual handle feed axis selection signals	HS1A to HS1D, HS1E	G018.0 to G018.3, G411.0	○	○
		HS2A to HS2D, HS2E	G018.4 to G018.7, G411.1	○	○
		HS3A to HS3D, HS3E	G019.0 to G019.3, G411.2	○	○
		HS4A to HS4D, HS4E	G020.0 to G020.3, G411.3	○	○
		HS5A to HS5D, HS5E	G379.0 to G379.3, G412.0	○	○
	Manual handle feed amount selection signals (incremental feed signals)	MP1,MP2,MP4	G019.4,G019.5 G019.6	○	○
	Manual handle feed amount selection signals	MP21, MP22 MP31, MP32 MP41, MP42 MP51, MP52	G087.0,G087.1 G087.3,G087.4 G087.6,G087.7 G380.0,G380.1	○	○
	Manual handle feed maximum feedrate change signal	HNDLF	G023.3	○	○
	Manual handle feed direction inversion signal	HDN	G347.1	○	○

Function	Signal name	Symbol	Address	T series	M series
Manual handle interrupt	Manual handle interrupt axis selection signals	HS1IA to HS1ID, HS1IE	G041.0 to G041.3, G411.4	○	○
		HS2IA to HS2ID, HS2IE	G041.4 to G041.7, G411.5	○	○
		HS3IA to HS3ID, HS3IE	G042.0 to G042.3, G411.6	○	○
		HS4IA to HS4ID, HS4IE	G088.4 to G088.7, G411.7	○	○
		HS5IA to HS5ID, HS5IE	G379.4 to G379.7, G412.4	○	○
	3-dimensional coordinate system conversion manual interrupt enable/disable switch signal	NOT3DM	G347.7	○	○
	3-dimensional coordinate conversion manual interrupt mode in-progress signal	D3MI	F347.7	○	○
Manual handle retrace	Checking mode signal	MMOD	G067.2	○	○
	Handle available signal in checking mode	MCHK	G067.3	○	○
	Forward movement prohibition signal	FWSTP	G531.0	○	○
	Reverse movement prohibition signal	MRVM	G531.1	○	○
	Reverse movement signal	MRVMD	F091.0	○	○
	Direction change prohibition signal	MNCHG	F091.1	○	○
	Reverse movement prohibition signal	MRVSP	F091.2	○	○
	Check mode confirmation signal	MMMOD	F091.3	○	○
Manual linear/circular interpolation	Feed axis and direction selection signals	+Jg, -Jg, +Ja, -Ja	G086.0 to G086.3	○	○
	Manual linear/circular interpolation signals	MHLC1 to MHLC5	G544.0 to G544.4	○	○
	Usage selection of manual linear/circular interpolation signals	MHUS1 to MHUS5	G545.0 to G545.4	○	○
Manual reference position return	Manual reference position return selection signal	ZRN	G043.7	○	○
	Manual reference position return selection check signal	MREF	F004.5	○	○
	Reference position return deceleration signals	*DEC1 to *DEC8	G196	○	○
			X009	○	○
	Reference position return end signals	ZP1 to ZP8	F094	○	○
	Reference position establishment signals	ZRF1 to ZRF8	F120	○	○

Function	Signal name	Symbol	Address	T series	M series
Manual tool compensation	Manual tool compensation tool number signal (4 digits)	MTLN00 to MTLN15	G068,G069	○	-
	Manual tool compensation tool number signal (8 digits)	MT8N00 to MT8N31	G525 to G528	○	-
	Manual tool compensation command number	MTLC	G067.0	○	-
	Manual tool compensation completion signal	MTLA	F061.5	○	-
	Manual tool compensation uncompleted signal	MTLANG	F061.4	○	-
Memory protection key	Memory protection signals	KEY1 to KEY4	G046.3 to G046.6	○	○
		KEYP	G046.0	○	○
Mirror image	Mirror image signals	MI1 to MI8	G106	○	○
	Mirror image check signals	MMI1 to MMI8	F108	○	○
Mode selection	Mode selection signals	MD1,MD2,MD4	G043.0 to G043.2	○	○
	Manual data input selection check signal	MMDI	F003.3	○	○
	Automatic operation selection check signal	MMEM	F003.5	○	○
	Program edit selection check signal	MEDT	F003.6	○	○
	Manual handle feed selection check signal	MH	F003.1	○	○
	Incremental feed selection check signal	MINC	F003.0	○	○
	Jog feed selection check signal	MJ	F003.2	○	○
Multiple M commands in a single block	2nd M function code signals	M200 to M215	F014,F015	○	○
		M200 to M231	F014 to F017	○	○
	3rd M function code signals	M300 to M315	F016,F017	○	○
		M300 to M331	F564 to F567	○	○
	4th M function code signals	M400 to M431	F568 to F571	○	○
Multiple M commands in a single block	5th M function code signals	M500 to M531	F572 to F575	○	○
	2nd M function strobe signal	MF2	F008.4	○	○
	3rd M function strobe signal	MF3	F008.5	○	○
	4th M function strobe signal	MF4	F008.6	○	○
	5th M function strobe signal	MF5	F008.7	○	○
Multi-spindle control	Spindle selection signals	SWS1	G027.0	○	○
		SWS2	G027.1	○	○
		SWS3	G027.2	○	○
		SWS4	G026.3	○	○
	Individual spindle stop signals	*SSTP1	G027.3	○	○
		*SSTP2	G027.4	○	○
		*SSTP3	G027.5	○	○

Function	Signal name	Symbol	Address	T series	M series
Multi-spindle control		*SSTP4	G026.6	○	○
	Gear selection signals (input)	GR21,GR22	G029.0,G029.1	○	○
		GR31,GR32	G029.2,G029.3	○	○
		GR41,GR42	G031.4,G031.5	○	○
	2nd position coder selection signal	PC2SLC	G028.7	○	○
	3rd position coder selection signal	PC3SLC	G026.0	○	○
	4th position coder selection signal	PC4SLC	G026.1	○	○
	2nd spindle speed override signals	SOV20 to SOV27	G376	○	○
	3rd spindle speed override signals	SOV30 to SOV37	G377	○	○
	4th spindle speed override signals	SOV40 to SOV47	G378	○	○
	Spindle command path specification signal	SPSP	G536.7	○	○
	Spindle enable signal	ENB2	F038.2	○	○
		ENB3	F038.3	○	○
		ENB4	F039.1	○	○
	S 12-bit code signals	R01O2 to R12O2	F200.0 to F201.3	○	○
		R01O3 to R12O3	F204.0 to F205.3	○	○
		R01O4 to R12O4	F270.0 to F271.3	○	○
	Multi-spindle address P signals	MSP00 to MSP15	F160,F161	○	○
Multi-step skip function	Skip signal	SKIPP	G006.6	○	○
		SKIP	X004.7	○	○
		SKIP2 to SKIP6, SKIP7,SKIP8	X004.2 to X004.6 X004.0,X004.1	○	○
NC data output function	NC data output signal	ALLO	F578.5	○	○
One-digit F code feed	One-digit F code feed signal	F1D	G016.7	-	○
One touch macro call	Macro call start signal	MCST1 to MCST16	G512,G513	○	○
	Mode change completion signal	MCFIN	G514.0	○	○
	Macro call executing signal	MCEXE	F512.0	○	○
	Mode change request signal	MCRQ	F512.1	○	○
	Mode notification signal	MD1R	F513.0	○	○
		MD2R	F513.1	○	○
		MD4R	F513.2	○	○
		DNCIR	F513.5	○	○
		ZRNR	F513.7	○	○
	Abnormal end signal	MCSP	F512.2	○	○
	Call program confirmation signal	MCEX1 to MCEX16	F514,F515	○	○
Operator error prevent	Start check signal	STCHK	G408.0	○	○
	Middle block start signal	MBSO	F534.4	○	○

Function	Signal name	Symbol	Address	T series	M series
Optional block skip/addition of optional block skip	Optional block skip signals	BDT1	G044.0	○	○
		BDT2 to BDT9	G045	○	○
	Optional block skip check signals	MBDT1	F004.0	○	○
		MBDT2 to MBDT9	F005	○	○
Outputting the movement state of an axis	Axis moving signals	MV1 to MV8	F102	○	○
	Axis moving direction signals	MVD1 to MVD8	F106	○	○
Override cancel	Override cancel signal	OVC	G006.4	○	○
Overtravel	Overtravel signals	*+L1 to *+L8	G114	○	○
		*-L1 to *-L8	G116	○	○
Path select	Path select signal (Tool post select signal)	HEAD	G063.0	●	●
	Path select signal 2	HEAD2	G062.7	●	●
	Path select signal 3	HEAD3	G408.1	●	●
	Path select signal 4	HEAD4	G408.2	●	●
Path spindle control	Path spindle command selection signals	SLSPA,SLSPB, SLSPC,SLSPD	G063.2,G063.3, G403.0,G403.1	●	●
	Path spindle feedback selection signals	SLPCA,SLPCB, SLPCC,SLPCD	G064.2,G064.3, G403.4,G403.5	●	●
	Path spindle command confirmation signal	COSP	F064.5	●	●
	Path spindle command confirmation signal	COSP1	F063.3	●	●
		COSP2	F063.4	●	●
		COSP3	F404.0	●	●
		COSP4	F404.1	●	●
Periodic Maintenance Screen	Periodic maintenance lifetime warning signal	LIFOVR	F093.0	○	○
Phase synchronization for Servo/Spindle synchronous control	Phase synchronization for Servo/Spindle synchronous start signal	SYPST	G517.7	○	○
	Phase synchronization for Servo/Spindle synchronous finished signal	SYPFN	F527.6	○	○
	Phase synchronization for Servo/Spindle synchronous error signal	SYPER	F527.7	○	○
PMC axis control / PMC axis speed control function	Control axis selection signals (PMC axis control)	EAX1 to EAX8	G136	○	○
	Axis control command signals (for group 1 to 4) (PMC axis control)	EC0A to EC6A	G143.0 to G143.6	○	○
		EC0B to EC6B	G155.0 to G155.6	○	○
		EC0C to EC6C	G167.0 to G167.6	○	○
		EC0D to EC6D	G179.0 to G179.6	○	○
	Axis control feedrate signals (for group 1 to 4) (PMC axis control)	EIF0A to EIF15A	G144 to G145	○	○
		EIF0B to EIF15B	G156 to G157	○	○
		EIF0C to EIF15C	G168 to G169	○	○
		EIF0D to EIF15D	G180 to G181	○	○

Function	Signal name	Symbol	Address	T series	M series
PMC axis control / PMC axis speed control function	Axis control command read signal (for group 1 to 4) (PMC axis control)	EBUFA	G142.7	○	○
		EBUFB	G154.7	○	○
		EBUFC	G166.7	○	○
		EBUFD	G178.7	○	○
	Axis control data signals (for group 1 to 4) (PMC axis control)	EID0A to EID31A	G146 to G149	○	○
		EID0B to EID31B	G158 to G161	○	○
		EID0C to EID31C	G170 to G173	○	○
		EID0D to EID31D	G182 to G185	○	○
	Axis control command read completion signals (for group 1 to 4) (PMC axis control)	EBSYA	F130.7	○	○
		EBSYB	F133.7	○	○
		EBSYC	F136.7	○	○
		EBSYD	F139.7	○	○
	Reset signal (for group 1 to 4) (PMC axis control)	ECLRA	G142.6	○	○
		ECLRB	G154.6	○	○
		ECLRC	G166.6	○	○
		ECLRD	G178.6	○	○
	Axis control temporary stop signal (for group 1 to 4) (PMC axis control)	ESTPA	G142.5	○	○
		ESTPB	G154.5	○	○
		ESTPC	G166.5	○	○
		ESTPD	G178.5	○	○
	Block stop signal (for group 1 to 4) (PMC axis control)	ESBKA	G142.3	○	○
		ESBKB	G154.3	○	○
		ESBKC	G166.3	○	○
		ESBKD	G178.3	○	○
	Block stop disable signal (for group 1 to 4) (PMC axis control)	EMSBKA	G143.7	○	○
		EMSBKB	G155.7	○	○
		EMSBKC	G167.7	○	○
		EMSBKD	G179.7	○	○
	Auxiliary function code signals (for group 1 to 4) (PMC axis control)	EM11A to EM48A	F132,F142	○	○
		EM11B to EM48B	F135,F145	○	○
		EM11C to EM48C	F138,F148	○	○
		EM11D to EM48D	F141,F151	○	○
	Auxiliary function strobe signal (for group 1 to 4) (PMC axis control)	EMFA	F131.0	○	○
		EMFB	F134.0	○	○
		EMFC	F137.0	○	○
		EMFD	F140.0	○	○
	Auxiliary function 2 strobe signal (for group 1 to 4) (PMC axis control)	EMF2A	F131.2	○	○
		EMF2B	F134.2	○	○
		EMF2C	F137.2	○	○
		EMF2D	F140.2	○	○
	Auxiliary function 3 strobe signal (for group 1 to 4) (PMC axis control)	EMF3A	F131.3	○	○
		EMF3B	F134.3	○	○
		EMF3C	F137.3	○	○
		EMF3D	F140.3	○	○
	Auxiliary function completion signal (for group 1 to 4) (PMC axis control)	EFINA	G142.0	○	○
		EFINB	G154.0	○	○
		EFINC	G166.0	○	○
		EFIND	G178.0	○	○
	Servo-off signal (for group 1 to 4) (PMC axis control)	ESOFA	G142.4	○	○
		ESOFB	G154.4	○	○
		ESOFC	G166.4	○	○
		ESOFD	G178.4	○	○

Function	Signal name	Symbol	Address	T series	M series
PMC axis control / PMC axis speed control function	Buffering disable signal (for group 1 to 4) (PMC axis control)	EMBUFA	G142.2	○	○
		EMBUFB	G154.2	○	○
		EMBUFC	G166.2	○	○
		EMBUFD	G178.2	○	○
	Controlled axis selection status signals (PMC axis control)	*EAXSL	F129.7	○	○
	In-position signal (for group 1 to 4) (PMC axis control)	EINPA	F130.0	○	○
		EINPB	F133.0	○	○
		EINPC	F136.0	○	○
		EINPD	F139.0	○	○
	Following zero checking signals (for group 1 to 4) (PMC axis control)	ECKZA	F130.1	○	○
		ECKZB	F133.1	○	○
		ECKZC	F136.1	○	○
		ECKZD	F139.1	○	○
	Alarm signal (for group 1 to 4) (PMC axis control)	EIALA	F130.2	○	○
		EIALB	F133.2	○	○
		EIALC	F136.2	○	○
		EIALD	F139.2	○	○
	Axis moving signals (for group 1 to 4) (PMC axis control)	EGENA	F130.4	○	○
		EGENB	F133.4	○	○
		EGENC	F136.4	○	○
		EGEND	F139.4	○	○
	Auxiliary function executing signals (for group 1 to 4) (PMC axis control)	EDENA	F130.3	○	○
		EDENB	F133.3	○	○
		EDENC	F136.3	○	○
		EDEND	F139.3	○	○
	Negative-direction overtravel signals (for group 1 to 4) (PMC axis control)	EOTNA	F130.6	○	○
		EOTNB	F133.6	○	○
		EOTNC	F136.6	○	○
		EOTND	F139.6	○	○
	Positive-direction overtravel signals (for group 1 to 4) (PMC axis control)	EOTPA	F130.5	○	○
		EOTPB	F133.5	○	○
		EOTPC	F136.5	○	○
		EOTPD	F139.5	○	○
	Feedrate override signals (for group 1 to 4) (PMC axis control)	*EFOV0 to *EFOV7	G151	○	○
		*EFOV0B to *EFOV7B	G163	○	○
		*EFOV0C to *EFOV7C	G175	○	○
		*EFOV0D to *EFOV7D	G187	○	○
	1% step rapid traverse override signals (for group 1 to 4) (PMC axis control)	*EROV0 to *EROV7	G151	○	○
		*EROV0B to *EROV7B	G163	○	○
		*EROV0C to *EROV7C	G175	○	○
		*EROV0D to *EROV7D	G187	○	○

Function	Signal name	Symbol	Address	T series	M series
PMC axis control / PMC axis speed control function	Override cancellation signal (for group 1 to 4) (PMC axis control)	EOVC	G150.5	○	○
		EOVCB	G162.5	○	○
		EOVCC	G174.5	○	○
		EOVCD	G186.5	○	○
	Rapid traverse override signals (PMC axis control)	EROV1,EROV2	G150.0,G150.1	○	○
	Dry run signal (PMC axis control)	EDRN	G150.7	○	○
	Manual rapid traverse selection signal (PMC axis control)	ERT	G150.6	○	○
	Override 0% signal (PMC axis control)	EOV0	F129.5	○	○
	Skip signal (PMC axis control)	ESKIP	X004.6	○	○
	Distribution completion signals (PMC axis control)	EADEN1 to EADEN8	F112	○	○
	Buffer full signals (for group 1 to 4) (PMC axis control)	EABUFA	F131.1	○	○
		EABUFB	F134.1	○	○
		EABUFC	F137.1	○	○
		EABUFD	F140.1	○	○
	Controlling signals (PMC axis control)	EACNT1 to EACNT8	F182	○	○
	Accumulated zero check signal (for group 1 to 4) (PMC axis control)	ELCKZA	G142.1	○	○
		ELCKZB	G154.1	○	○
		ELCKZC	G166.1	○	○
		ELCKZD	G178.1	○	○
	Torque control mode signal (PMC axis control)	TRQM1 to TRQM8	F190	○	○
	A/B phase detector disconnection alarm ignore signal (PMC axis control)	NDCAL1 to NDCAL8	G202	○	○
	Manual pulse magnification change signal	HNDMP	G088.3	○	○
Polygon turning	Polygon synchronization under way signal	PSYN	F063.7	○	○
Polygon Turning with Two Spindles	Polygon spindle stop signal	*PLSST	G038.0	○	○
	Polygon spindle speed arrival signal	PSAR	F063.2	○	○
	Polygon master axis not arrival signal	PSE1	F063.0	○	○
	Polygon synchronization axis not arrival signal	PSE2	F063.1	○	○
Position switch	Position switch signals	PSW01 to PSW16	F070,F071	○	○
Program restart	Program restart signal	SRN	G006.0	○	○
	Program restart under way signal	SRNMV	F002.4	○	○
	Program restart MDI program output completion signal	SQMPR	F316.6	○	○
	Program restart MDI program execution completion signal	SQMPE	F316.7	○	○

Function	Signal name	Symbol	Address	T series	M series
Quick program restart	Quick program restart under way signal	SRNEX	Fn534.1	○	○
	Program restart memory storing disabled signal	QRSTD	G517.6	○	○
Rapid traverse block overlap	Rapid traverse block overlap disable signal	ROVLP	G053.5	○	○
Rapid traverse override	Rapid traverse override signals	ROV1,ROV2	G014.0,G014.1	○	○
	1% step rapid traverse override selection signals	HROV	G096.7	○	○
	1% rapid traverse override signals	*HROV0 to *HROV6	G096.0 to G096.6	○	○
	0.1% step rapid traverse override selection signal	FHROV	G353.7	○	○
	0.1% rapid traverse override signals	*FHRO0 to *FHRO9	G352.0 to G352.7 G353.0 to G353.1	○	○
Reference point setting with mechanical stopper	Torque limit reach signals for reference point setting with mechanical stopper	CLRCH1 to CLRCH8	F180	○	○
Reference position signal output function	Reference position match signals	RP11 to RP18	F517.0 to F517.7	○	○
	2nd reference position match signals	RP21 to RP28	F518.0 to F518.7	○	○
Reset and rewind	External reset signal	ERS	G008.7	○	○
	MDI reset confirmation signal	MDIRST	F006.1	○	○
	Reset & rewind signal	RRW	G008.6	○	○
	Resetting signal	RST	F001.1	○	○
	Rewinding signal	RWD	F000.0	○	○
	Reset key input invalid signal	IRTKY	G299.7	○	○
Resolution of spindle speed command	S 32-bit code signals	RE01O to RE32O	F708 to F711	○	○
		RE01O2 to RE32O2	F712 to F715	○	○
		RE01O3 to RE32O3	F716 to F719	○	○
		RE01O4 to RE32O4	F720 to F723	○	○
	Extended actual spindle speed signals	ARE00 to ARE31	F580 to F583	○	○
		ARE002 to ARE312	F584 to F587	○	○
		ARE003 to ARE313	F588 to F591	○	○
		ARE004 to ARE314	F592 to F595	○	○
	Extended spindle motor speed command signals	RE01I to RE32I	G708 to G711	○	○
		RE01I2 to RE32I2	G712 to G715	○	○
		RE01I3 to RE32I3	G716 to G719	○	○
		RE01I4 to RE32I4	G720 to G723	○	○

Function	Signal name	Symbol	Address	T series	M series
Retrace	Reverse execution signal	RVS	G007.0	-	○
	Reverse movement signal	RVSL	F082.2	-	○
Retraction for Rigid tapping	Rigid tapping retraction start signal	RTNT	G062.6	○	○
	Rigid tapping retraction completion signal	RTPT	F066.1	○	○
Rigid tapping	Rigid tapping signal	RGTAP	G061.0	○	○
	Spindle rotation direction signals	RGSPP	F065.0	○	○
		RGSPM	F065.1	○	○
	Rigid tapping-in-progress signal	RTAP	F076.3	○	○
	Rigid tapping spindle selection signals	RGTSP1 to RGTSP4	G061.4 to G061.7	○	-
Run hour and part count display	Target part count reached signal	PRTSF	F062.7	○	○
	General-purpose integrating meter start signal	TMRON	G053.0	○	○
Screen erasure	Screen erasure disable signal	*CRTOF	G062.1	○	○
	Automatic screen erasure status in-progress signal	ERTVA	F006.2	○	○
Screen hard copy function	Hard copy cancellation request signal	HCABT	G067.6	○	○
	Hard copy execution request signal	HCREQ	G067.7	○	○
	Hard copy cancellation request reception signal	HCAB2	F061.2	○	○
	Hard copy execution status signal	HCEXE	F061.3	○	○
Servo loop gain / in-position width switching function by signal	Servo loop gain / in-position width switching signal	GIS	G599.3	○	○
	Servo loop gain / in-position width switching confirmation signal	GISO	F599.3	○	○
Servo warning interface	Servo warning detail signals	SVWRN1	F093.4	○	○
		SVWRN2	F093.5	○	○
		SVWRN3	F093.6	○	○
		SVWRN4	F093.7	○	○
Servo off / mechanical handle feed	Servo off signals	SVF1 to SVF8	G126	○	○
Servo/Spindle synchronous control	Servo motor rotation speed specification signals	SVR01I to SVR12I	G021.0 to G022.3	○	○
	Differential speed synchronization command signal	DFSYC	G022.4	○	○
	Servo motor rotation polarity specification signal	SVGN	G022.5	○	○
	Servo motor spindle control switching signal	SVSP	G022.7	○	○
	Servo motor spindle synchronization start signal	SYSS	G061.2	○	○

Function	Signal name	Symbol	Address	T series	M series
Servo/Spindle synchronous control	Servo motor spindle synchronization mode acceleration/deceleration completion signal	SYAR	F090.4	○	○
	Servo motor spindle synchronization mode signal	SYSSM	F090.5	○	○
	Servo motor spindle control mode acceleration/deceleration completion signal	SVAR	F090.6	○	○
	Servo motor spindle control mode signal	SVSPM	F090.7	○	○
Simple spindle electronic gear box	Simple spindle EGB signals	SSEGB1 to SSEGB4	G351.0 to G351.3	○	○
	Simple spindle EGB mode signals	SSEGBM1 to SSEGBM4	F351.0 to F351.3	○	○
Single block	Single block signal	SBK	G046.1	○	○
	Single block check signal	MSBK	F004.3	○	○
Skip function	Skip signal	SKIPP	G006.6	○	○
		SKIP	X004.7	○	○
Software operator's panel	Software operator's panel signal (MD1)	MD1O	F073.0	○	○
	Software operator's panel signal (MD2)	MD2O	F073.1	○	○
	Software operator's panel signal (MD4)	MD4O	F073.2	○	○
	Software operator's panel signal (ZRN)	ZRNO	F073.4	○	○
	Software operator's panel signal (+J1 to +J4)	+J1O to +J4O	F081.0,F081.2, F081.4,F081.6	○	○
	Software operator's panel signal (-J1 to -J4)	-J1O to -J4O	F081.1,F081.3, F081.5,F081.7	○	○
	Software operator's panel signal (RT)	RTO	F077.6	○	○
	Software operator's panel signal (HS1A)	HS1AO	F077.0	○	○
	Software operator's panel signal (HS1B)	HS1BO	F077.1	○	○
	Software operator's panel signal (HS1C)	HS1CO	F077.2	○	○
	Software operator's panel signal (HS1D)	HS1DO	F077.3	○	○
	Software operator's panel signal (MP1)	MP1O	F076.0	○	○
	Software operator's panel signal (MP2)	MP2O	F076.1	○	○
	Software operator's panel signal (*JV0 to *JV15)	*JV0O to *JV15O	F079,F080	○	○
	Software operator's panel signal (*FV0 to *FV7)	*FV0O to *FV7O	F078	○	○
	Software operator's panel signal (ROV1)	ROV1O	F076.4	○	○
	Software operator's panel signal (ROV2)	ROV2O	F076.5	○	○

Function	Signal name	Symbol	Address	T series	M series
Software operator's panel	Software operator's panel signal (BDT)	BDTO	F075.2	○	○
	Software operator's panel signal (SBK)	SBKO	F075.3	○	○
	Software operator's panel signal (MLK)	MLKO	F075.4	○	○
	Software operator's panel signal (DRN)	DRNO	F075.5	○	○
	Software operator's panel signal (KEY1 to KEY4)	KEYO	F075.6	○	○
	Software operator's panel signal (*SP)	SPO	F075.7	○	○
	Software operator's panel general-purpose switch signals	OUT0 to OUT15	F072,F074	○	○
Speed display function of a milling tool with servo motor	Speed display change signal	SDPC	G038.5	○	○
Spindle control mode changing by program command	Spindle control mode off signals	MDOFF1 to MDOFF4	G586.4 to G586.7	○	○
Spindle command synchronous control	Spindle command synchronous control signal	ESRSYC	G064.6	○	○
	Spindle command synchronous control signal (for each spindle)	ESSYC1	G264.0	○	○
		ESSYC2	G264.1	○	○
		ESSYC3	G264.2	○	○
		ESSYC4	G264.3	○	○
	1st spindle parking signal	PKESS1	G122.6 (G031.6)	○	○
	2nd spindle parking signal	PKESS2	G122.7 (G031.7)	○	○
	Spindle command synchronous parking signal (for each spindle)	PKESE1	G265.0	○	○
		PKESE2	G265.1	○	○
		PKESE3	G265.2	○	○
		PKESE4	G265.3	○	○
	Phase error monitor signal	SYCAL	F044.4	○	○
	Phase error monitor signal (for each spindle)	SYCAL1	F043.0	○	○
		SYCAL2	F043.1	○	○
		SYCAL3	F043.2	○	○
		SYCAL4	F043.3	○	○
Spindle control with servo motor	SV speed control mode signals	SRVON1 to SRVON8	G521	○	○
	SV reverse signals	SVRVS1 to SVRVS8	G523	○	○
	SV speed control mode in-progress signals	SVREV1 to SVREV8	F521	○	○
	Spindle indexing signals for each axis	SPP1 to SPP8	F522	○	○
	Speed zero signals	SVSST1 to SVSST8	F376	○	○
	Speed arrival signals	SVSAR1 to SVSAR8	F377	○	○

Function	Signal name	Symbol	Address	T series	M series
Spindle orientation	Spindle orientation signals with the stop position externally set	SH00A to SH14A	G078.0 to G079.6	○	○
		SH00B to SH14B	G080.0 to G081.6	○	○
		SH00C to SH14C	G208.0 to G209.6	○	○
		SH00D to SH14D	G270.0 to G271.6	○	○
Spindle output control by the PMC	Spindle motor speed command selection signals	SIND	G033.7	○	○
		SIND2	G035.7	○	○
		SIND3	G037.7	○	○
		SIND4	G273.7	○	○
	Spindle motor speed command signals	R01I to R12I	G032.0 to G033.3	○	○
		R01I2 to R12I2	G034.0 to G035.3	○	○
		R01I3 to R12I3	G036.0 to G037.3	○	○
		R01I4 to R12I4	G272.0 to G273.3	○	○
	Spindle motor command polarity selection signals	SSIN	G033.6	○	○
		SSIN2	G035.6	○	○
		SSIN3	G037.6	○	○
		SSIN4	G273.6	○	○
	Spindle motor command polarity command signals	SGN	G033.5	○	○
		SGN2	G035.5	○	○
		SGN3	G037.5	○	○
		SGN4	G273.5	○	○
Spindle positioning	Spindle stop complee signal	SPSTPA	G028.6	○	○
		SPSTPB	G402.1	○	○
		SPSTPC	G402.2	○	○
		SPSTPD	G402.3	○	○
	Spindle unclamp signal	SUCLPA	F038.1	○	○
		SUCLPB	F400.1	○	○
		SUCLPC	F400.2	○	○
		SUCLPD	F400.3	○	○
	Spindle unclamp completion signal	*SUCPFA	G028.4	○	○
		*SUCPFB	G400.1	○	○
		*SUCPFC	G400.2	○	○
		*SUCPFD	G400.3	○	○
	Spindle clamp completion signal	*SCPFA	G028.5	○	○
		*SCPFB	G401.1	○	○
		*SCPFC	G401.2	○	○
		*SCPFD	G401.3	○	○
	Spindle clamp signal	SCLPA	F038.0	○	○
		SCLPB	F401.1	○	○
		SCLPC	F401.2	○	○
		SCLPD	F401.3	○	○
	Spindle positioning mode signals	MSPOSA	F039.0	○	○
		MSPOSB	F402.1	○	○
		MSPOSC	F402.2	○	○
		MSPOSD	F402.3	○	○

Function	Signal name	Symbol	Address	T series	M series
Spindle revolution number history function	Total spindle revolution number reset signals	SSR1 to SSR4	G533.0 to G533.3	○	○
	Total spindle revolution number reset selection signal	SSRS	G533.4	○	○
Spindle serial output	Torque limit command LOW signals (serial spindle)	TLMLA	G070.0	○	○
		TLMLB	G074.0	○	○
		TLMLC	G204.0	○	○
		TLMLD	G266.0	○	○
	Torque limit command HIGH signals (serial spindle)	TLMHA	G070.1	○	○
		TLMHB	G074.1	○	○
		TLMHC	G204.1	○	○
		TLMHD	G266.1	○	○
	Clutch/gear signals (serial spindle)	CTH1A,CTH2A	G070.3,G070.2	○	○
		CTH1B,CTH2B	G074.3,G074.2	○	○
		CTH1C,CTH2C	G204.3,G204.2	○	○
		CTH1D,CTH2D	G266.3,G266.2	○	○
	CCW command signals (serial spindle)	SRVA	G070.4	○	○
		SRVB	G074.4	○	○
		SRVC	G204.4	○	○
		SRVD	G266.4	○	○
	CW command signals (serial spindle)	SFRA	G070.5	○	○
		SFRB	G074.5	○	○
		SFRC	G204.5	○	○
		SFRD	G266.5	○	○
	Orientation command signals (serial spindle)	ORCMA	G070.6	○	○
		ORCMB	G074.6	○	○
		ORCMC	G204.6	○	○
		ORCMD	G266.6	○	○
	Machine ready signals (serial spindle)	MRDYA	G070.7	○	○
		MRDYB	G074.7	○	○
		MRDYC	G204.7	○	○
		MRDYD	G266.7	○	○
	Alarm reset signals (serial spindle)	ARSTA	G071.0	○	○
		ARSTB	G075.0	○	○
		ARSTC	G205.0	○	○
		ARSTD	G267.0	○	○
	Emergency stop signals (serial spindle)	*ESPA	G071.1	○	○
		*ESPB	G075.1	○	○
		*ESPC	G205.1	○	○
		*ESPD	G267.1	○	○
	Spindle selection signals (serial spindle)	SPSLA	G071.2	○	○
		SPSLB	G075.2	○	○
		SPSLC	G205.2	○	○
		SPSLD	G267.2	○	○
	Power line switch completion signals (serial spindle)	MCFNA	G071.3	○	○
		MCFNB	G075.3	○	○
		MCFNC	G205.3	○	○
		MCFND	G267.3	○	○
	Soft start/stop signals (serial spindle)	SOCNA	G071.4	○	○
		SOCNB	G075.4	○	○
		SOCNC	G205.4	○	○
		SOCND	G267.4	○	○

Function	Signal name	Symbol	Address	T series	M series
Spindle serial output	Speed integral signals (serial spindle)	INTGA	G071.5	○	○
		INTGB	G075.5	○	○
		INTGC	G205.5	○	○
		INTGD	G267.5	○	○
	Output switch request signals (serial spindle)	RSLA	G071.6	○	○
		RSLB	G075.6	○	○
		RSLC	G205.6	○	○
		RSLD	G267.6	○	○
	Power line status check signals (serial spindle)	RCHA	G071.7	○	○
		RCHB	G075.7	○	○
		RCHC	G205.7	○	○
		RCHD	G267.7	○	○
	Orientation stop position change command signals (serial spindle)	INDXA	G072.0	○	○
		INDXB	G076.0	○	○
		INDXC	G206.0	○	○
		INDXD	G268.0	○	○
	Rotational direction command signals for orientation stop position change (serial spindle)	ROTAA	G072.1	○	○
		ROTAB	G076.1	○	○
		ROTAC	G206.1	○	○
		ROTAD	G268.1	○	○
	Shortcut command signals for orientation stop position change (serial spindle)	NRROA	G072.2	○	○
		NRROB	G076.2	○	○
		NRROC	G206.2	○	○
		NRROD	G268.2	○	○
	Differential speed mode command signals (serial spindle)	DEFMDA	G072.3	○	○
		DEFMDB	G076.3	○	○
		DEFMDC	G206.3	○	○
		DEFMDD	G268.3	○	○
	Analog override signals (serial spindle)	OVRA	G072.4	○	○
		OVRB	G076.4	○	○
		OVRC	G206.4	○	○
		OVRD	G268.4	○	○
	Incremental command externally set orientation signals (serial spindle)	INCMDA	G072.5	○	○
		INCMDB	G076.5	○	○
		INCMDC	G206.5	○	○
		INCMDD	G268.5	○	○
	Spindle switch MAIN MCC contact status signals (serial spindle)	MFNHGA	G072.6	○	○
		MFNHGB	G076.6	○	○
		MFNHGC	G206.6	○	○
		MFNHGD	G268.6	○	○
	Spindle switch HIGH MCC contact status signals (serial spindle)	RCHHGA	G072.7	○	○
		RCHHGB	G076.7	○	○
		RCHHGC	G206.7	○	○
		RCHHGD	G268.7	○	○
	Magnetic sensor orientation command signals (serial spindle)	MORCMA	G073.0	○	○
		MORCMB	G077.0	○	○
		MORCMC	G207.0	○	○
		MORCMD	G269.0	○	○
	Subordinate operation mode command signals (serial spindle)	SLVA	G073.1	○	○
		SLVB	G077.1	○	○
		SLVC	G207.1	○	○
		SLVD	G269.1	○	○

Function	Signal name	Symbol	Address	T series	M series
Spindle serial output	Disconnection detection disable signal (serial spindle)	DSCNA	G073.4	○	○
		DSCNB	G077.4	○	○
		DSCNC	G207.4	○	○
		DSCND	G269.4	○	○
	Inertia estimation start signal (serial spindle)	INESTRA	G304.6	○	○
		INESTRB	G308.6	○	○
		INESTRC	G312.6	○	○
		INESTRD	G316.6	○	○
	Adaptive resonance elimination filter search mode signal (serial spindle)	FRFSMA	G304.7	○	○
		FRFSMB	G308.7	○	○
		FRFSMC	G312.7	○	○
		FRFSMD	G316.7	○	○
	Resonance elimination filter 1 disable signal (serial spindle)	HF1A	G305.0	○	○
		HF1B	G309.0	○	○
		HF1C	G313.0	○	○
		HF1D	G317.0	○	○
	Resonance elimination filter 2 disable signal (serial spindle)	HF2A	G305.1	○	○
		HF2B	G309.1	○	○
		HF2C	G313.1	○	○
		HF2D	G317.1	○	○
	Resonance elimination filter 3 disable signal (serial spindle)	HF3A	G305.2	○	○
		HF3B	G309.2	○	○
		HF3C	G313.2	○	○
		HF3D	G317.2	○	○
	Resonance elimination filter 4 disable signal (serial spindle)	HF4A	G305.3	○	○
		HF4B	G309.3	○	○
		HF4C	G313.3	○	○
		HF4D	G317.3	○	○
	Cutting feed/rapid traverse PWM frequency switching function in Cs contour control enable signal (serial spindle)	PWMSEA	G306.1	○	○
		PWMSEB	G310.1	○	○
		PWMSEC	G314.1	○	○
		PWMSED	G318.1	○	○
	Preload and multi-axis integrator copy disable signal (serial spindle)	TDFCANA	G306.2	○	○
		TDFCANB	G310.2	○	○
		TDFCANC	G314.2	○	○
		TDFCAND	G318.2	○	○
	Motor power cutoff command signals (serial spindle)	MPOFA	G073.2	○	○
		MPOFB	G077.2	○	○
		MPOFC	G207.2	○	○
		MPOFD	G269.2	○	○
	Alarm signals (serial spindle)	ALMA	F045.0	○	○
		ALMB	F049.0	○	○
		ALMC	F168.0	○	○
		ALMD	F266.0	○	○
	Speed zero signals (serial spindle)	SSTA	F045.1	○	○
		SSTB	F049.1	○	○
		SSTC	F168.1	○	○
		SSTD	F266.1	○	○
	Speed detection signals (serial spindle)	SDTA	F045.2	○	○
		SDTB	F049.2	○	○
		SDTC	F168.2	○	○
		SDTD	F266.2	○	○

Function	Signal name	Symbol	Address	T series	M series
Spindle serial output	Spindle speed arrival signal (serial spindle)	SARA	F045.3	○	○
		SARB	F049.3	○	○
		SARC	F168.3	○	○
		SARD	F266.3	○	○
	Load detection signals 1 (serial spindle)	LDT1A	F045.4	○	○
		LDT1B	F049.4	○	○
		LDT1C	F168.4	○	○
		LDT1D	F266.4	○	○
	Load detection signals 2 (serial spindle)	LDT2A	F045.5	○	○
		LDT2B	F049.5	○	○
		LDT2C	F168.5	○	○
		LDT2D	F266.5	○	○
	Torque limit state signals (serial spindle)	TLMA	F045.6	○	○
		TLMB	F049.6	○	○
		TLMC	F168.6	○	○
		TLMD	F266.6	○	○
	Orientation completion signals (serial spindle)	ORARA	F045.7	○	○
		ORARB	F049.7	○	○
		ORARC	F168.7	○	○
		ORARD	F266.7	○	○
	Power line switch signals (serial spindle)	CHPA	F046.0	○	○
		CHPB	F050.0	○	○
		CHPC	F169.0	○	○
		CHPD	F267.0	○	○
	Spindle switch completion signals (serial spindle)	CFINA	F046.1	○	○
		CFINB	F050.1	○	○
		CFINC	F169.1	○	○
		CFIND	F267.1	○	○
	Output switch signals (serial spindle)	RCHPA	F046.2	○	○
		RCHPB	F050.2	○	○
		RCHPC	F169.2	○	○
		RCHPD	F267.2	○	○
	Output switch completion signals (serial spindle)	RCFNA	F046.3	○	○
		RCFNB	F050.3	○	○
		RCFNC	F169.3	○	○
		RCFND	F267.3	○	○
	Subordinate operation status signals (serial spindle)	SLVSA	F046.4	○	○
		SLVSB	F050.4	○	○
		SLVSC	F169.4	○	○
		SLVSD	F267.4	○	○
	Position coder orientation proximity signal (serial spindle)	PORA2A	F046.5	○	○
		PORA2B	F050.5	○	○
		PORA2C	F169.5	○	○
		PORA2D	F267.5	○	○
	Magnetic sensor orientation completion signals (serial spindle)	MORA1A	F046.6	○	○
		MORA1B	F050.6	○	○
		MORA1C	F169.6	○	○
		MORA1D	F267.6	○	○
	Magnetic sensor orientation proximity signals (serial spindle)	MORA2A	F046.7	○	○
		MORA2B	F050.7	○	○
		MORA2C	F169.7	○	○
		MORA2D	F267.7	○	○

Function	Signal name	Symbol	Address	T series	M series
Spindle serial output	Position coder one-rotation signal detection status signals (serial spindle)	PC1DTA	F047.0	○	○
		PC1DTB	F051.0	○	○
		PC1DTC	F170.0	○	○
		PC1DTD	F268.0	○	○
	Incremental orientation mode signals (serial spindle)	INCSTA	F047.1	○	○
		INCSTB	F051.1	○	○
		INCSTC	F170.1	○	○
		INCSTD	F268.1	○	○
	Motor excitation off state signal (serial spindle)	EXOFA	F047.4	○	○
		EXOFB	F051.4	○	○
		EXOFC	F170.4	○	○
		EXOFD	F268.4	○	○
	DC-link failure detection state signal (serial spindle)	VDCABA	F306.4	○	○
		VDCABB	F308.4	○	○
		VDCABC	F310.4	○	○
		VDCABD	F312.4	○	○
	Adaptive resonance elimination filter search completion signal (serial spindle)	FRDTEA	F307.0	○	○
		FRDTEB	F309.0	○	○
		FRDTEC	F311.0	○	○
		FRDTED	F313.0	○	○
	Power failure detection signal (serial spindle)	XPFLA	F307.1	○	○
		XPFLB	F309.1	○	○
		XPFLC	F311.1	○	○
		XPFLD	F313.1	○	○
	Inertia estimation completion signal (serial spindle)	INESFNA	F307.2	○	○
		INESFNB	F309.2	○	○
		INESFNC	F311.2	○	○
		INESFND	F313.2	○	○
	All-spindle operation ready signal	SRSRDY	F034.7	○	○
	1st serial spindle ready signals	SRSP1R	F034.6	○	○
	2nd serial spindle ready signals	SRSP2R	F034.5	○	○
	3rd serial spindle ready signals	SRSP3R	F034.4	○	○
	4th serial spindle ready signals	SRSP4R	F034.3	○	○
Spindle speed control	Spindle warning detail signals 1 to 9	SPWRN1 to SPWRN9	F264.0 to F265.0	○	○
	Spindle stop signal	*SSTP	G029.6	○	○
	Spindle orientation signal	SOR	G029.5	○	○
	Spindle speed override signals	SOV0 to SOV7	G030	○	○
	Spindle speed arrival signal	SAR	G029.4	○	○
	Spindle enable signal	ENB	F001.4	○	○
	Gear selection signals (output)	GR1O,GR2O, GR3O	F034.0 to F034.2	-	○
	Gear selection signals (input)	GR1	G028.1	○	○
		GR2	G028.2	○	○
	S 12-bit code signals	R01O to R12O	F036.0 to F037.3	○	○
Spindle speed fluctuation detection	Spindle speed fluctuation detection alarm signal	SPAL	F035.0	○	○

Function	Signal name	Symbol	Address	T series	M series
Spindle synchronous control	Spindle synchronous control signal	SPSYC	G038.2	○	○
	Spindle synchronous control signal (for each spindle)	SPSYC1	G288.0	○	○
		SPSYC2	G288.1	○	○
		SPSYC3	G288.2	○	○
		SPSYC4	G288.3	○	○
	Spindle phase synchronous control signal	SPPHS	G038.3	○	○
	Spindle phase synchronous control signal (for each spindle)	SPPHS1	G289.0	○	○
		SPPHS2	G289.1	○	○
		SPPHS3	G289.2	○	○
		SPPHS4	G289.3	○	○
	Spindle synchronous speed control completion signal	FSPSY	F044.2	○	○
	Spindle synchronous speed control completion signal (for each spindle)	FSPSY1	F288.0	○	○
		FSPSY2	F288.1	○	○
		FSPSY3	F288.2	○	○
		FSPSY4	F288.3	○	○
	Spindle phase synchronization control completion signal	FSPPH	F044.3	○	○
	Spindle phase synchronization control completion signal (for each spindle)	FSPPH1	F289.0	○	○
		FSPPH2	F289.1	○	○
		FSPPH3	F289.2	○	○
		FSPPH4	F289.3	○	○
	Phase error monitor signal	SYCAL	F044.4	○	○
	Phase error monitor signal (for each spindle)	SYCAL1	F043.0	○	○
		SYCAL2	F043.1	○	○
		SYCAL3	F043.2	○	○
		SYCAL4	F043.3	○	○
	Spindle synchronous speed ratio control clamp signal	RSMAX	F065.2	○	○
	Spindle synchronous speed ratio control signal	SBRT	G038.1	○	○
	Synchronous orientation request command	SORSLA	G073.3	○	○
		SORSLB	G077.3	○	○
		SORSLC	G207.3	○	○
		SORSLD	G269.3	○	○
	Synchronous orientation enable signal	SORENA	F047.3	○	○
		SORENB	F051.3	○	○
		SORENC	F170.3	○	○
		SOREND	F268.3	○	○
Status output signal	Rapid traversing signal	RPDO	F002.1	○	○
	Cutting feed signal	CUT	F002.6	○	○
	Dwell status signal	DWL	F526.5	○	○
Stored stroke check	Stored stroke check 1 switching signals in axis direction	+EXL1 to +EXL8	G104	○	○
		-EXL1 to -EXL8	G105	○	○
	Stored stroke check 1 select signals	EXLM, EXLM2, EXLM3	G007.6, G531.6, G531.7	○	○

Function	Signal name	Symbol	Address	T series	M series
Stored stroke check	Stroke check 1 release signal	RLSOT	G007.7	○	○
	Overtravel alarm signals	+OT1 to +OT8	F124	○	○
		-OT1 to -OT8	F126	○	○
Stored stroke check 2, 3	Stroke check 3 release signal	RLSOT3	G007.4	○	○
Stored stroke limit range switching function by signal	Stored stroke limit range switching data selection signals	OTD0 to OTD15	G594,G595	○	○
	Stored stroke limit range switching axis selection signals	OTA1 to OTA8	G596	○	○
	Stored stroke limit range switching selection signals	+OT11, -OT11, +OT12, -OT12, +OT2, -OT2, +OT3, -OT3	G597	○	○
	Sotred stroke limit range switching cancellation signals	+OT11C, -OT11C, +OT12C, -OT12C, +OT2C, -OT2C, +OT3C, -OT3C	G598	○	○
	Stored stroke limit range switching start signal	OTSW	G599.0	○	○
	Stored stroke limit range switching confirmation signals	+OT11O, -OT11O, +OT12O, -OT12O, +OT2O, -OT2O, +OT3O, -OT3O	F598	○	○
	Stored stroke limit range switching finish signal	OTSWFN	F599.0	○	○
Stroke limit external setting	Stroke limit external setting signals	+LM1 to +LM8	G110	○	○
		-LM1 to -LM8	G112	○	○
Superimposed control	Superimposed control axis selection signals	OVLS1 to OVLS8	G190	○	○
	Superimposed control master axis confirmation signals	OVMO1 to OVMO8	F344	○	○
	Superimposed control slave axis confirmation signals	OVSO1 to OVSO8	F345	○	○
	Synchronous/composite/superimposed control under way signals	SYN1O to SYN8O	F118	○	○
Superimposed control available in the AI contour control mode	Superimposed control axis selection signals	OVLS1 to OVLS8	G190	○	○
	Synchronous/composite/superimposed control under way signals	SYN1O to SYN8O	F118	○	○
	AI contour control permission signal	OVLN	G531.4	○	○
	Advanced superimposition mode signal	OVLNS	F545.1	○	○
Synchronous and composite control	Composite control axis change selection signals	MIX1 to MIX8	G128	○	○
	Composite axis confirmation signals	MIXO1 to MIXO8	F343	○	○

Function	Signal name	Symbol	Address	T series	M series
Synchronous and composite control	Synchronous control axis selection signals	SYNC1 to SYNC8	G138	○	○
	Synchronous master axis confirmation signals	SYCM1 to SYCM8	F341	○	○
	Synchronous slave axis confirmation signals	SYCS1 to SYCS8	F342	○	○
	Synchronous/composite/superimposed control under way signals	SYN1O to SYN8O	F118	○	○
	Parking signals	PK1 to PK8	G122	○	○
	Parking axis confirmation signals	SMPK1 to SMPK8	F346	○	○
	Excess synchronization error signals	SEO1 to SEO8	F559	○	○
Threading	Threading signal	THRD	F002.3	○	○
Three-dimensional coordinate conversion	Three-dimensional coordinate system conversion manual interruption switch signal	M3R	G031.3	○	○
	Three-dimensional coordinate conversion mode signal	D3ROT	F062.6	○	○
Time constant of acceleration / deceleration after interpolation switching function by signal	Time constant of acceleration / deceleration after interpolation for cutting feed switching signals	CTC2 CTC3	G599.4 G599.5	○	○
	Time constant of acceleration / deceleration after interpolation for rapid traverse switching signals	RTC2 RTC3	G599.6 G599.7	○	○
	Time constant of acceleration / deceleration after interpolation for cutting feed switching confirmation signals	CTC2O CTC3O	F599.4 F599.5	○	○
	Time constant of acceleration / deceleration after interpolation for rapid traverse switching confirmation signals	RTC2O RTC3O	F599.6 F599.7	○	○
Tool life management	Tool change signal	TLCH	F064.0	○	○
	Tool change reset signal	TLRST	G048.7	○	○
	Individual tool change signal	TLCHI	F064.2	○	○
	Individual tool change reset signal	TLRSTI	G048.6	○	○
	Tool skip signal	TLSKP	G048.5	○	○
	New tool select signal	TLNW	F064.1	○	○
	Tool group number selection signals	TL01 to TL512	G047.0 to G048.1	○	○
	Tool life count override signals	*TLV0 to *TLV9	G049.0 to G050.1	○	○
	Tool life arrival notice signal	TLCHB	F064.3	○	○

Function	Signal name	Symbol	Address	T series	M series
Tool life management	Tool life counting disable signal	LFCIV	G048.2	○	○
	Tool life counting disabled signal	LFCIF	F093.2	○	○
	Number of remaining tools notification signal	TLAL	F154.0	-	○
Tool management extension function	Tool management data protection signal	TKEY0 to TKEY5	G330.0 to G330.5	○	○
Tool management function	Tool management data modification in-progress signal	TLMG10	F315.2	○	○
	Tool management data output in-progress signal	TLMOT	F315.4	○	○
	Tool management data edit in-progress signal	TLMEM	F315.7	○	○
	Tool search in-progress signal	TLMSRH	F315.1	○	○
	Tool change signal	TLCH	F064.0	○	○
	Tool change signal 1	TLCH1	F328.0	○	○
	Tool change signal 2	TLCH2	F328.1	○	○
	Tool change signal 3	TLCH3	F328.2	○	○
	Tool change signal 4	TLCH4	F328.3	○	○
	Tool change reset signal	TLRST	G048.7	○	○
	Tool change reset signal 1	TLRST1	G328.0	○	○
	Tool change reset signal 2	TLRST2	G328.1	○	○
	Tool change reset signal 3	TLRST3	G328.2	○	○
	Tool change reset signal 4	TLRST4	G328.3	○	○
	Individual tool change signal	TLCHI	F064.2	○	○
	Individual tool change signal 1	TLCHI1	F328.4	○	○
	Individual tool change signal 2	TLCHI2	F328.5	○	○
	Individual tool change signal 3	TLCHI3	F328.6	○	○
	Individual tool change signal 4	TLCHI4	F328.7	○	○
	Individual tool change reset signal	TLRSTI	G048.6	○	○
	Individual tool change reset signal 1	TLRSTI1	G328.4	○	○
	Individual tool change reset signal 2	TLRSTI2	G328.5	○	○
	Individual tool change reset signal 3	TLRSTI3	G328.6	○	○
	Individual tool change reset signal 4	TLRSTI4	G328.7	○	○
	Tool life expiration notice signal	TLCHB	F064.3	○	○
	Tool life expiration notice signal 1	TLCHB1	F329.4	○	○

Function	Signal name	Symbol	Address	T series	M series
Tool management function	Tool life expiration notice signal 2	TLCHB2	F329.5	○	○
	Tool life expiration notice signal 3	TLCHB3	F329.6	○	○
	Tool life expiration notice signal 4	TLCHB4	F329.7	○	○
	Tool skip signal	TLSKP	G048.5	○	○
	Tool skip signal 1	TLSKP1	G329.0	○	○
	Tool skip signal 2	TLSKP2	G329.1	○	○
	Tool skip signal 3	TLSKP3	G329.2	○	○
	Tool skip signal 4	TLSKP4	G329.3	○	○
	Tool skip completion signal	TLSKF	F315.0	○	○
	Tool skip completion signal 1	TLSKF1	F329.0	○	○
	Tool skip completion signal 2	TLSKF2	F329.1	○	○
	Tool skip completion signal 3	TLSKF3	F329.2	○	○
	Tool skip completion signal 4	TLSKF4	F329.3	○	○
	Tool life count override signals	*TLV0 to *TLV9	G049.0 to G050.1	○	○
	Tool life counting disable signal 1	TLNCT1	G329.4	○	○
	Tool life counting disable signal 2	TLNCT2	G329.5	○	○
	Tool life counting disable signal 3	TLNCT3	G329.6	○	○
	Tool life counting disable signal 4	TLNCT4	G329.7	○	○
	Life expiration signal	TMFNFD	F315.6	○	○
Tool retract & recover	Tool retraction axis movement signal	TRMTN	F092.4	○	○
	Tool retraction signal	TRESC	G059.0	○	○
	Tool retraction mode signal	TRACT	F092.3	○	○
	Tool return signal	TRRTN	G059.1	○	○
	Tool return completion signal	TRSPS	F092.5	○	○
Torque limit skip	Torque limit reached signals	TRQL1 to TRQL8	F114	○	○
Touch panel check signal	Touch panel check signal	TPPRS	F006.0	○	○
Trouble diagnosis	Trouble forecast signals for thermal simulation	TDSML1 to TDSML8	F298	○	○
	Trouble forecast signals for disturbance level	TDFTR1 to TDFTR8	F299	○	○
U-axis Control	EGB synchronization mode selection signal	EGBS	G067.4	○	○
	EGB synchronization mode confirmation signal	EGBSM	F082.6	○	○
Unexpected disturbance torque detection	Unexpected disturbance torque detection ignore signals	IUDD1 to IUDD8	G125	○	○

Function	Signal name	Symbol	Address	T series	M series
Unexpected disturbance torque detection	Unexpected disturbance torque detection signals	ABDT1 to ABDT8	F184	○	○
	Servo axis unexpected disturbance torque detection signal	ABTQSV	F090.0	○	○
	1st spindle unexpected disturbance torque detection signal	ABTSP1	F090.1	○	○
	2nd spindle unexpected disturbance torque detection signal	ABTSP2	F090.2	○	○
	3rd spindle unexpected disturbance torque detection signal	ABTSP3	F090.3	○	○
	4th spindle unexpected disturbance torque detection signal	ABTSP4	F091.4	○	○
VRDY off alarm ignore signal	All-axis VRDY off alarm ignore signal	IGNVRY	G066.0	○	○
	Each-axis VRDY off alarm ignore signals	IGVRY1 to IGVRY8	G192	○	○
Waiting M code	No-wait signal	NOWT	G063.1	●	●
	No-wait signal	NMWT	G063.7	●	●
	Waiting signal	WATO	F063.6	●	●
Waiting M codes of high-speed type	Waiting M codes of high-speed type invalid signal	NHSW	G579.6	●	●
Warning function against modification of setting	Notification signal for modification of C Language Executor program	CDCEX	F558.0	○	○
	Notification signal for modification of 1st path PMC Ladder program	CDLAD1	F558.1	○	○
	Notification signal for modification of 2nd path PMC Ladder program	CDLAD2	F558.2	○	○
	Notification signal for modification of 3rd path PMC Ladder program	CDLAD3	F558.3	○	○
	Notification signal for modification of Dual Check Safety PMC Ladder program	CDDCL	F558.4	○	○
	Notification signal for modification of CNC parameter	CDPRM	F558.5	○	○
	Notification signal for modification of 4th path PMC Ladder program	CDLAD4	F558.6	○	○
	Notification signal for modification of 5th path PMC Ladder program	CDLAD5	F558.7	○	○