



Standard Specifications Type: MS3725

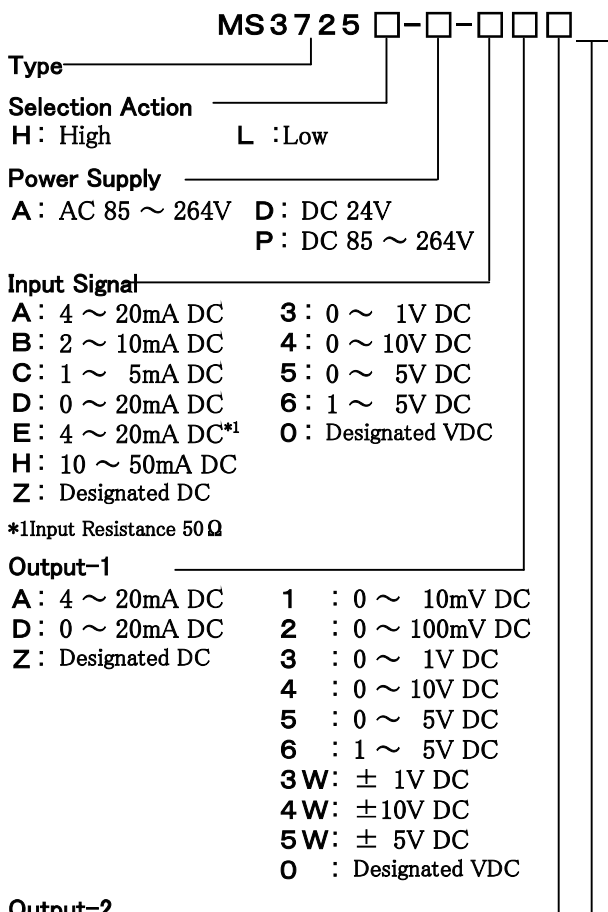
MS3700

Slim-shaped Plug-in High/Low Selector with Isolated Single/Dual Output

Overview

MS3725 is a slim-shaped plug-in high/low selector with isolated single/dual output to select two input signals and convert either the higher or the lower signal into standard measurement signal. (The level of the two input signals must be the same.) (RoHS-conformed)

Ordering Format



Please specify upon ordering

•Product Model Number
 (Example) MS3725H-A-6A6

Other items to be specified:
 •For input "0": MS3725H-A-0A6 (Input 2~10V)
 •For output "0": MS3725H-A-6A0 (Output 2~5V)
 •For option "X": MS3725H-A-6A6/X (Response Frequency 50Hz)
 •For more than one option: Enter Option Codes in succession(/KX)



Specifications

Power Supply Section	
Power Supply	AC85~264V (Rating 100~240V) 47~63Hz DC24V±10% DC85~264V (Rating 100~240V)

Power Sensitivity	Within ±0.1% of Span for each power supply voltage.
Power Supply Fuse	160mA Fuse

Maximum Power Consumption	
Power Supply	AC85~264V DC24V DC85~264V
Single Output	4.5VA max. / 1.4W max. / 4.8W max.
Dual Output	5.5VA max. / 1.7W max. / 6.0W max.

Input Section

Input Resistance		
Voltage Input	1MΩ min.	With excitation
(DC)	1MΩ min.	Without excitation
Current Input	4~20mA (Standard)	250Ω
(DC)	2~10mA	250Ω
	1~5mA	100Ω
	0~20mA	250Ω
	10~50mA	10Ω

Input Voltage Allowable	
Voltage Input	30V DC max. continuous (Span 10V max.)
Current Input	40mA DC max. continuous (4~20mA)

Range of Products Available		
	Current Signal	Voltage Signal
Input Range (DC)	0~100mA	0~10V
Input Span (DC)	100μA~200mA	200mV~10V
Input Bias	0~100%	0~100%
	(e.g.1) 4~20mA ⇒ Input Span 16mA, Bias 25%	
	(e.g.2) 2~6V ⇒ Input span 4V, Bias 50%	

Output Section

Maximum Output Load		
Voltage Output	1V Span min.	2mA max.
(DC)	10mV	10kΩ min.
	100mV	100kΩ min.
Current Output	4~20mA Single output	750Ω max.
(DC)	4~20mA Dual output	Out-1 550Ω max. Out-2 350Ω max.

Zero Adjustment Range	Approx. ±5% of Span (Adjustable by Trimmer on front panel)
Span Adjustment Range	Approx. ±5% of Span (Adjustable by Trimmer on front panel)

● **Output Section**

Range of Products Available

	Current Signal	Voltage Signal
Output Range (DC)	0~20mA	-10~10V
Output Span(DC)	4~20mA	10mV~20V
Output Bias	0~100%	-100~100%

*For current output smaller than 0.1mA, the accuracy is not guaranteed.
 (e.g.1) 4~20mA⇒ Output span 16mA, Bias 25%
 (e.g.2) 4~8V⇒ Output span 4V, Bias 100%

● **Standard Performance**

Conversion Accuracy	Within ±0.1%/F.S. (@25°C±5°C)
Temp. Characteristics	Within ±0.2% of Span with every 10°C variation
Selection Sensitivity	0.5%/F.S. max.
Response Time	85msec max. (0~90%) @100% step input
CMRR	100dB min. (500V AC, 50/60Hz)
Signal Isolation	Between Input - Out1-Out2-Power Supply-Ground
Isolation	100MΩ min. (@500V DC)
Resistance	Between Input-Out1-Out2-Power Supply-Ground
Dielectric Strength	Between Input-[Out1,Out2]-[Power Supply, Ground] :200V AC, Shut Down Current 0.5mA for 1 minute Between Power Supply - Ground :200V AC, Shut Down Current 5mA for 1 minute Between Out1 - Out2 :500V AC, Shut Down Current 0.5mA for 1 minute
Measures against SWC	Conform to ANSI/IEEE C37.90.1-1989
Operating Environment	Temperature: -5~55°C Humidity : 5~90%RH(Non-Condensing)
Storage Temp.	-10~60°C

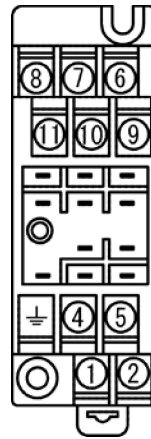
● **Installation / Physical Specifications**

Installation	Wall mounting &/or DIN-rail mounting
Wiring	M3.5 screw terminal connection (with P.S. terminal cover & screw drop-protection)
Screw Tightening Torque	0.8~1[N·m] Recommendable
Outer Dimension	W29×H86×D125mm (incl. set screws & terminal block)
Mass	Main body 120g max., Terminal Block 80g max.

● **Materials**

Housing	ABS Resin (UL-94V-0)
Terminal Block	ABS Resin (UL-94V-0)
Terminal Screws	Iron/Nickel-plated
Terminal Surface Treatment	0.2 μm / Gold plated
P.C. Board	Glass-Epoxy (FR-4:UL-94V-0)
Moisture-proof Coating	HumiSeal Coating :HumiSeal 1A27NS(Polyurethane Resin)

Terminal Arrangement / Signal Assignment



①	P(+)	POWER
②	N(-)	
⊥	GND	
④	+ OUTPUT 1	
⑤	- OUTPUT 1	
⑥	- INPUT 2	
⑦	+ OUTPUT 2	
⑧	- OUTPUT 2	
⑨	+ INPUT 1	
⑩	- INPUT 1	
⑪	+ INPUT 2	

Block Diagram

