

# Muting Sensor System

P1KL020, for Muting Arm

## ZMZG001

Part Number



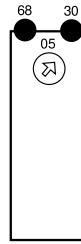
- Also suitable for glossy and reflective objects
- High switching frequency
- Pre-assembled for quick installation

The retro-reflex sensor works with red light and reliably detects objects, even with reflective or glossy surfaces at high speeds. The muting sensor system is pre-assembled in order to permit quick mounting to the muting boom.

### Technical Data

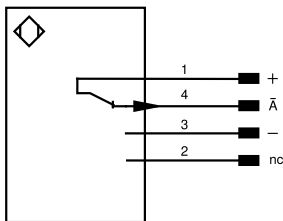
Optical Data	
Reference Reflector/Reflector Foil	RE6040BA
Light Source	Red Light
Max. Ambient Light	10000 Lux
Range	3500 mm
Switching Hysteresis	< 10 %
Two-Lens Optic	yes
Electrical Data	
Switching Frequency	2000 Hz
Current Consumption (U <sub>b</sub> = 24 V)	< 20 mA
Supply Voltage	10...30 V DC
Switching Output/Switching Current	100 mA
Interface	IO-Link V1.1
Protection Class	III
Mechanical Data	
Temperature Range	-40...60 °C
Material	Plastic
Degree of Protection	IP67/IP68
Connection	M12 × 1; 4-pin
Setting Method	Potentiometer
Cable Length	1 m
PNP NC	yes
Scope of delivery	1 × muting sensor 1 × mounting 1 × cable clip
Packaging unit	1 Piece
Default settings	Pre-assembled
Control Panel No.	<b>1K1</b>

### Ctrl. Panel

**1K1**


05 = Switching Distance Adjuster  
 30 = Switching Status/Contamination Warning  
 68 = supply voltage indicator

All dimensions in mm (1 mm = 0.03937 Inch)

**1014**

**Legend**

+	Supply Voltage +	nc	Not connected	EN <sub>BRS422</sub>	Encoder B/B̄ (TTL)
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	EN <sub>B</sub>	Encoder B
A	Switching Output (NO)	W	Trigger Input	AMIN	Digital output MIN
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	Digital output MAX
V	Contamination/Error Output (NO)	O	Analog Output	AOK	Digital output OK
ȳ	Contamination/Error Output (NC)	O-	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT
T	Teach Input	Amv	Valve Output	OLT	Brightness output
Z	Time Delay (activation)	a	Valve Control Output +	M	Maintenance
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved
RxD	Interface Receive Path	SY	Synchronization	Wire Colors according to DIN IEC 60757	
TxD	Interface Send Path	SY-	Ground for the Synchronization	BK	Black
RDY	Ready	E+	Receiver-Line	BN	Brown
GND	Ground	S+	Emitter-Line	RD	Red
CL	Clock	±	Grounding	OG	Orange
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow
	<b>IO-Link</b>	Rx+/-	Ethernet Receive Path	GN	Green
PoE	Power over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet
OSSD	Safety Output	La	Emitted Light disengageable	GY	Grey
Signal	Signal Output	Mag	Magnet activation	WH	White
Bl_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink
EN <sub>o RS422</sub>	Encoder 0-pulse 0/0̄ (TTL)	EDM	Contact Monitoring	GNYE	Green/Yellow
PT	Platinum measuring resistor	EN <sub>ARS422</sub>	Encoder A/Ā (TTL)		

