Sensor Mounting System
P1KL020, for Muting Arm

ZMZG001
Part Number

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

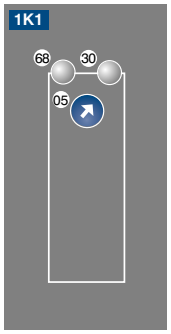
Technical Data

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 (Ub = 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 ea. muting sensor 1 ea. mounting 1 ea. cable clip
Packaging unit	1 Piece
Control Panel No.	1K1

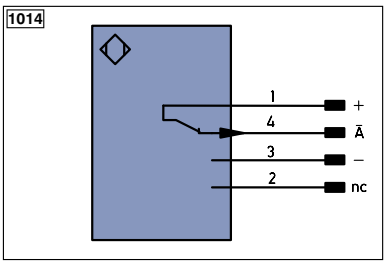
The retro-reflex sensor works with red light and reliably detects objects, even with reflective or glossy surfaces at high speeds. The muting sensor system is pre-assembled in order to permit quick mounting to the muting boom.

All dimensions in mm (1 mm = 0.03937 Inch)

Ctrl. Panel



05 = Switching Distance Adjuster
30 = Switching Status/Contamination Warning
68 = Supply Voltage Indicator



Legend

+	Supply Voltage +
–	Supply Voltage 0 V
~	Supply Voltage (AC Voltage)
A	Switching Output (NO)
Ā	Switching Output (NC)
V	Contamination/Error Output (NO)
V̄	Contamination/Error Output (NC)
E	Input (analog or digital)
T	Teach Input
Z	Time Delay (activation)
S	Shielding
RxD	Interface Receive Path
TxD	Interface Send Path
RDY	Ready
GND	Ground
CL	Clock
E/A	Output/Input programmable
	IO-Link
PoE	Power over Ethernet
IN	Safety Input
OSSD	Safety Output
Signal	Signal Output
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)
EN0 RS422	Encoder 0-pulse 0-0̄ (TTL)
PT	Platinum measuring resistor
nc	not connected
U	Test Input
Ū	Test Input inverted
W	Trigger Input
W–	Ground for the Trigger Input
O	Analog Output
O–	Ground for the Analog Output
BZ	Block Discharge
AW	Valve Output
a	Valve Control Output +
b	Valve Control Output 0 V
SY	Synchronization
SY–	Ground for the Synchronization
E+	Receiver-Line
S+	Emitter-Line
⏚	Grounding
SnR	Switching Distance Reduction
Rx+/–	Ethernet Receive Path
Tx+/–	Ethernet Send Path
Bus	Interfaces-Bus A(+)/B(–)
La	Emitted Light disengageable
Mag	Magnet activation
RES	Input confirmation
EDM	Contactor Monitoring
ENA RS422	Encoder A/Ā (TTL)
ENB RS422	Encoder B/B̄ (TTL)
ENA	Encoder A
ENB	Encoder B
AMIN	Digital output MIN
AMAX	Digital output MAX
AOK	Digital output OK
SY In	Synchronization In
SY OUT	Synchronization OUT
OLT	Brightness output
M	Maintenance
rsv	reserved

Wire Colors according to IEC 60757

BK	Black
BN	Brown
RD	Red
OG	Orange
YE	Yellow
GN	Green
BU	Blue
VT	Violet
GY	Grey
WH	White
PK	Pink
GNYE	Green/Yellow